

Quantitative Skills Workbook

for AQA AS and A Level Year 1

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Teacher's Introduction

Advanced level Business students sometimes find the quantitative skills required for success in this area of study a challenge. This workbook has been produced with the intention of providing them with the opportunity to develop their skills, knowledge and understanding of the topics and concepts that require the demonstration of quantitative skills in a business context.

Remember!

Always check the exam board website for new information, including changes to the specification and sample assessment material.

Each section within the workbook allows students to examine both theoretical notes and worked examples. They have the opportunity to complete exam-style questions that should assist in enhancing and consolidating their skills, knowledge and understanding. This should contribute to them being confident of applying these with success in a range of settings, including during lessons, and within homework tasks, independent learning activities and examinations.

The workbook includes <u>all</u> AS Business quantitative terms and concepts associated with the AQA exam board's qualification.

Sections 1 to 12 are organised as follows:

- **Part A: Specification Overview** this provides an overview of the term or concept specified by the exam board and the understanding required.
- Part B: Theoretical Overview a brief summary of the key points associated with the quantitative skill related term/concept.
- Part C: Example detailed quantitative and written responses to exam-style questions.
- **Part D: Practice Activity** each section includes two practice activities that allow students to demonstrate their understanding of the terms/concepts. Answers are provided at the end of the resource.

The AS Assessment Activities provide students with the chance to complete assessment activities related to their level of study. The assessments are presented in a similar format to the exam papers set by AQA. Mark schemes are provided.

Free Updates!

Register your email address to receive any future free updates* made to this resource or other Business resources your school has purchased, and details of any promotions for your subject.

* resulting from minor specification changes, suggestions from teachers and peer reviews, or occasional errors reported by customers

Go to zzed.uk/freeupdates

Specification Summary

Students could be required to demonstrate their quantitative skills across a range previous section. This will require them to develop the ability to calculate, use, use of numerical related data, along with constructing and interpreting a range of great statement of the section of the sect

Quantitative skills will be assessed by at least level 2 mathematical skills, which woverall AS marks. These may be assessed across the assessment objectives.

AS and A Level Year 1

Business Papers 1 and 2 could include assessment of the quantitative skills related

- The measurement and importance of profit
- Understanding management decision-making: decision trees
- Value of primary and secondary market research (market size, sales growth, share)
- Marketing data
- Price and income elasticity of demand
- Operations data
- Inventory control charts
- Budgets
- Cash flow forecasting and analysis
- Break-even analysis
- Profitability analysis
- Human resource data

Practice Papers Topics Coverage

Measurement and importance of profit
Understanding management decision-making: decision trees
Value of primary and secondary market research (market size, sales growth,
market growth, and market share)
Marketing data
Price and income elasticity of demand
Operations data
Inventory control charts
Budgets
Cash flow forecasting and analysis
Break-even analysis
Profitability analysis
Human resource data

Note:

• **AS Paper 2** – Q8 does not appear in the above table, as it can be addressed us financial areas related to the AS specification

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SECTION 1: THE MEASUREMENT AND IMPORTA

Part A: Specification Overview

The measurement and importance of profit is part of 3.1 What is business? section subsection 3.1.1, Understanding the nature and purpose of business. Students are measurement of revenue (also known as turnover and sales), fixed costs, variables

- Part B: Theoretical Overview –

Selling price is the amount that a customer pays in order to receive a good or se

Revenue is the total amount of money earned by a business from selling its good

revenue = selling price per unit × output

Cost is the amount paid by a business for the materials/services used in the provimanufacturing of its goods.

Fixed costs are costs that do not change with the level of output. The business have whether a good or service is made or sold. These are also known as overheads of

total fixed costs = all fixed costs added togethe

Variable costs are costs that change with the level of output. If output increases increase, while if output decreases the total variable costs will decrease. These a

total variable costs = variable cost per unit × outp

Total costs are all costs added together.

total costs = total fixed costs + total variable cos

Profit/loss is the amount of money left from revenue once all costs have been dethan the total costs the business has made a profit, while if it is lower it has made

profit = revenue - total costs

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Part C: Example

Simone's Sandwich Shop is a small business based in Suffolk which supplies sandwich cakes to employees of local firms. They also sell to people who are passing by the have the facilities to cater for meetings or events they are holding.

The business will serve approximately 80 customers each day who each spend above each customer around £0.40 on raw materials, £0.70 on wages and £0.15 on eneweekly costs are £225 for rent, £25 insurance, £50 business rates and salary £325 days a week.

1. Calculate the revenue achieved by Simone's Sandwich Shop during one week

2. Calculate the total variable costs per week of Simone's Sandwich Shop.

3. Calculate the total fixed costs per week of Simone's Sandwich Shop.

4. Calculate the total weekly costs of Simone's Sandwich Shop.

```
£625 (total fixed costs) + £500 (total variable costs) = £1,125 total costs
```

5. Calculate the weekly profit or loss of Simone's Sandwich Shop.

```
£1,500 - £1,125 = £375 weekly profit
```

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Part D: Practice Activity -

Activity 1

Rose McGovern, a sixth-form Business Studies student, produced hand-crafted be enterprise business she ran with two other students. The group sold their items a local craft and trade fairs. This is slightly higher than other craft stalls that sell at each piece of jewellery being a unique design.

A jewellery kit that includes all the items to make a range of beaded jewellery cost pieces of jewellery can be produced using this resource. Each one takes about two at £0.75 per hour. Each design has a Swarovski like crystal included that costs £0.3 jewellery box with coloured tissue paper which costs £0.50.

1.	Calculate the added value for the jewellery.	
		**
2.	Explain two ways in which Rose's business added value.	

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Activity 2

A leading 16 GB computer tablet sells for \$499.00 in the USA. It has the following

- Display/touchscreen \$115.00
- Memory \$24.75
- Battery \$15.00
- Processor \$14.00
- Box contents \$5.00
- Cameras \$11.00
- Other component costs \$80.25
- Manufacturing cost \$5.00¹
- 1. Assuming that the promotion and distribution costs equate to 20% of the to calculate the added value for the computer tablet.

Reminder: calculate the promotion/distribution costs using:

	$\frac{\% \times \text{total manufactoring cost}}{100} = \$?$
	100
2.	In the first quarter of 2015 Apple had a 26.8% share of the global computer different ways that Apple has added value to the iPad Air 2 during the manu process.

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¹ http://www.cnet.com/uk/news/apples-ipad-air-2-costs-275-to-358-to-make-teardown-reveals/

² http://www.macrumors.com/2015/04/30/idc-tablet-shipments-q1-2015/

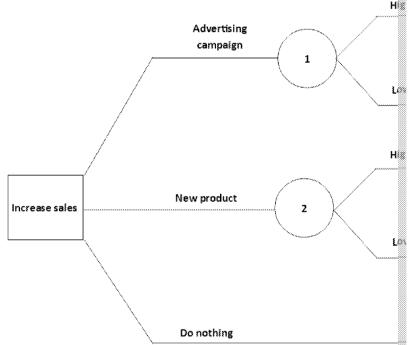
SECTION 2: UNDERSTANDING MANAGEMENT DE DECISION TREES

Part A: Specification Overview

The understanding and interpreting of decision trees is part of 3.2 Managers, lead section and appears within subsection 3.2.2, Understanding management decision to understand and interpret decision trees and calculate expected value and net

Part B: Theoretical Overview

A decision tree is a graphical model which represents the options available to a be decision. The expected value of each option is identified, along with the probability business can calculate the net gain associated with each option and use this under it finally makes.



- The advertising campaign will cost £0.5m.
- Developing a new product will cost £1.5m.
- The **square** represents the decision to be made; how to increase sales.
- The lines (branches) coming from the square signify the choices available to its sales: launch an advertising campaign, launch a new product or do nothing which should not automatically be dismissed, as sometimes doing nothing campaign.
- The **circle** (node) shows the outcomes of the choices available. The circles a referencing to them makes it easier for others to follow. For example, the outcompaign can be found after circle 1. The potential outcome is high sales or launching a new product are found after circle 2.
- The **probability** of the outcome is listed beneath the relevant outcome line. high sales from a new advertising campaign is 0.7, but there is a 0.3 probability probability is measured from 0 to 1. A probability of **0** (zero) indicates there being achieved. A probability of **1** (one) suggests the outcome will definitely advertising campaign provides a 70% chance of sales improving by £5m, who only improve by £2m. The same approach applies to all possible outcomes.

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Expected value

The **expected value** is the anticipated financial outcome of each option, but adjust occurring. The **expected value is calculated** for a circle as follows:

(first probability of an outcome X first expected financial benefit of an outcome) outcome X second expected financial benefit of an outcome) + and so on ...

Advertising campaign: $(£5m \times 0.7) + (£2m \times 0.3)$

$$£3.5m + £0.6 = £4.1m$$

The advertising campaign's expected value is £4.1m.

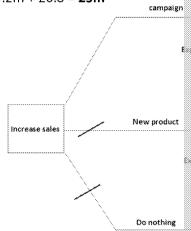
New product: $(£7m \times 0.6) + (£2m \times 0.4)$

The new product's expected value is £5.0m.

Net gain

Although the expected value for the new product is higher it does not mean this is preferable to the advertising campaign. The **net gain** has to be worked out. This is the expected value of the option available to the business less any costs associated with it.

Advertising campaign: £4.1m - £0.5m = £3.6m



The net gain of the business choosing the advertising campaign is £3.6m.

New product: £5m - £1.5m = £3.5m

The net gain of the new business launching a new product is £3.5m.

Out of the options available to the business it should **choose the advertising can** higher net gain.

It is clear on the diagram which option is chosen, as those not selected have a line

Advantages As the diagram requires numerical Septiderations this encourages research, thereby therefore, qualitative the tensor of the tensor

- As the diagram requires numerical considerations this encourages research, thereby enhancing the quality of the information used.
- It encourages managers to give careful consideration to the options available, rather than being focused on one idea.
- The method considers the risks of each option; therefore, the decision-maker can make an informed choice with the risks in mind.
- The method focuses therefore, qualitative such as a competito how employees will
- The probabilities are no guarantee of the
- The decision tree can outcomes that are kn that do not fall with
- The diagrams may no decisions, which care straightforward management

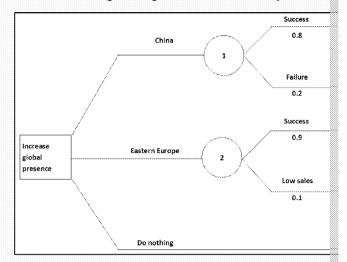
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Part C: Example

Fanaway PLC is a multinational whose core business is producing fans for domestic increase its global presence and has three options available: launch its products in choose to do nothing and keep things as they are. The cost of launching in China has for Eastern Europe it is £1.5m. The marketing manager has set out the key information



1. Calculate the net gain for Fanaway PLC launching its products in China.

$$(£11m \times 0.8) + (£1.5m \times 0.2)$$

£8.8m + £0.3m = £9.1m expected value
£9.1m - £2.5m = £6.6m net gain

The option of launching in China has an anticipated net gain of £6.6m.

2. Calculate the net gain for Fanaway PLC launching its products in Eastern Europe

$$(£9m \times 0.9) + (£2.0m \times 0.1)$$

£8.1m + £0.2m = £8.3m expected value
£8.3m - £1.5m = £6.8m net gain

The option of launching in Eastern Europe has an anticipated net gain of &

3. Advise the business of which option it should take.

Based purely on the decision tree the business should launch its product rapprovides a higher net gain than China at £0.2m more.

4. Advise the business of any other information it should consider before making

Although launching in Eastern Europe is quantitatively more advantageous not ignore key qualitative factors. As the business launches into a new markfully understands the dynamics of it, including any cultural differences which marketing strategy used. It must consider the extent to which its marketine new market and has the ability to adapt its marketing approach to cater level of expertise is not available or the business cannot source it from elsevel decision tree are not likely to be realistic for this market.

The business also needs to consider the economic climate in Eastern Europe Brexit. If it is subject to rapid change, has this been reflected in the decision again the estimates might be unreliable and the business would do best dela further research to be undertaken to allow for informed decision—making.

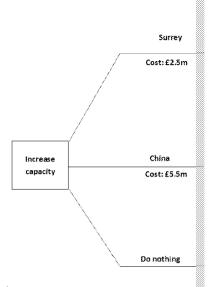
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Part D: Practice Activity

Activity 3

Rockwell Electronics Ltd designs, produces and distributes computer games for a range of gaming formats. The business's innovative games have allowed it to differentiate itself in a highly competitive market, which has allowed it to price its product at a premium in comparison to competitors. The global gaming market is expected to be worth \$99.6bn by 2016 with the mobile gaming market expected to be valued at \$52.5bn by 2019.³ The business wishes to capitalise on the anticipated global growth, but is undecided on which option is the best one for it to take. It is considering setting up a design, production and distribution operation in China, as the Asia-Pacific market is



expected to dominate the global mobile market⁴ and the business would be best the market effectively. The other option is to expand its capacity in the UK by set Surrey. Either option would allow the business to meet the expected demand. The Collymore, has consulted staff and produced a decision tree for the options available.

1.	Calculate the net gains for the two options available to Rockwell Electronics
2.	Based on your answer to Q1, which option should the business choose to inc

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³ http://marketrealist.com/2016/06/how-is-the-digital-gaming-market-growing/

⁴ http://marketrealist.com/2016/06/how-is-the-digital-gaming-market-growing/

3. Identify and explain **two qualitative factors** the business should consider be decision. **Activity 4** In 2015, electric car sales were 1.15m, which Norway represented a 70% growth in comparison to 2014. Cost: £10m The US, China and Netherlands accounted for 70% of all the global sales. This has been partly due to the electric public charging infrastructure vastly improving within these countries and having greater availability.5 China global sales Cost: £22m Rosebud Vehicles Ltd designs and produces electric cars which are sold globally. It has experienced significant growth in both the US and Chinese markets. Norway now has a significant presence for electric car sales. The business has a dilemma. It wants to increase its global presence, but can only focus on one option; launch the products in Norway or increase its can manager has put together a decision tree to reflect these options. 1. Calculate the net gains for the two options available to Rosebud Vehicles Ltd.

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⁵ https://www.carbonbrief.org/iea-there-are-now-more-than-one-million-electric-cars-on-the-worlds-roads

Based only on your answer to Q1, which option should the business choose to position? 3. Mark **on the decision tree diagram** the two options that are to be rejected, 4. Comment on why Rosebud Vehicles Ltd would use decision trees to assist the decision.

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SECTION 3: VALUE OF PRIMARY AND SECONDARY (MARKET SIZE, SALES GROWTH, MARKET GROWTH, A)

Part A: Specification Overview

The value of primary and secondary market research is part of 3.3 Decision-making performance section and appears within subsection 3.3.2, Understanding market required to calculate market and sales growth, market share and size.

Part B: Theoretical Overview

A market is a place where buyers and sellers come together to exchange goods a Tony&Guy is an example of a service retailer operating in the hairdressing market example of a good provided in the mobile phone market.

Market size is the value of a market based on the total income or total quantity businesses which operate within it over a specified period of time. The market size up all the income or unit sales of all products or companies within the market. The market in 2014 was £1.1 billion based on value and 345 million litres based on value.

Sales volume refers to the quantity of products sold or services provided by a bustime. If the sales volume is based on all products sold or all services provided by then this equates to market size (see above). For the year ending June 2014 the vales was 16.9 million kilograms.⁷

Market share refers to the proportion (percentage) of the total market which is product. For example, in 2014, Unilever, the manufacturer of well-known ice creat & Jerry's and Cornetto, had a 37% share of the UK ice cream market. 8 It is calculated to the content of the UK ice cream market. 9 It is calculated to the content of the UK ice cream market. 9 It is calculated to the content of the UK ice cream market. 9 It is calculated to the content of the UK ice cream market. 9 It is calculated to the content of the UK ice cream market. 9 It is calculated to the content of the UK ice cream market. 9 It is calculated to the content of the UK ice cream market. 9 It is calculated to the content of the UK ice cream market. 9 It is calculated to the content of the UK ice cream market. 9 It is calculated to the content of the UK ice cream market. 9 It is calculated to the content of the UK ice cream market. 9 It is calculated to the content of the UK ice cream market. 9 It is calculated to the content of the UK ice cream market. 9 It is calculated to t

 $\frac{\text{sales of one product or business}}{\text{total market sales}} \times 100 = \%$

Sales growth refers to the percentage change in sales either based on income or over a specified period of time. For example, Magnum ice cream sales increased June 2014 in comparison to the previous year. It is calculated as follows either us data:

current sales for a specific product or business -previous period sales for specific previous period sales for a specific product of business

Market growth refers to the percentage change in the total market based either businesses or all products within the market over a specified period of time. For February 2015 the UK ice cream tub market based on volume declined by 4.9%. follows, using either volume data or income data:

current total market sales – previous period total market sales

previous period total market sales

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http://www.telegraph.co.uk/finance/newsbysector/retailandconsumer/11744608/Heres-the-scoop-China-is market.html

 $^{^{7}\} http://www.thegrocer.co.uk/reports/digital-features/ice-cream-report-2014/magnum-going-great-guns-in-it-like the properties of the$

⁸ http://www.euromonitor.com/ice-cream-in-the-united-kingdom/report

⁹ http://www.thegrocer.co.uk/reports/digital-features/ice-cream-report-2015/family-tubs-left-on-shelf-as-pre

Part C: Example

The UK supermarket sector was valued at £26,407 million for the 12-week period £292 million increase on the 12-week period ending March 2014. Tesco's market ending March 2015 was 28.7%, Asda 17.0% and Sainsbury's 16.8%. Waitrose's valued at £1,383 million and £1,318 million for the same period ending March 20

1. Calculate the market size of the supermarket industry for the 12-week period

£26,407 million - £292 million = £26,115 million

Calculate the market growth of the supermarket industry between the 12-wee
 March 2014 and 2015.

$$\frac{292}{26,115} \times 100 = 1.1\%$$

The supermarket industry grew by 1.1% between the 12-week periods er

 Calculate the value of the supermarket industry supplied by Tesco for the 12-March 2015.

$$\frac{26,407 \times 28.7}{100}$$
 = £7,759 million

4. Calculate Waitrose's market share of the supermarket industry for the 12-we

$$\frac{1,383}{26,407} \times 100 = 5.2\%$$

5. Calculate Waitrose's sales growth between the 12-week periods ending Marc

$$\frac{65}{1,318} \times 100 = 4.9\%$$

Waitrose's sales based on income grew by 4.9% between the 12-week period 2015.

6. Which supermarket would be considered most dominant out of those listed?

Tesco would be considered the dominant supermarket as it had the highest by at least 23.5% (28.7% Tesco – 5.2% Waitrose).

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¹⁰ http://www.univeguk.co.uk/blog

Part D: Practice Activity -

Activity 5

Worldwide mobile phone sales and market share 2015 a

	20		
Company	Unit sales ('000)	Market share (%)	Unit sale
Samsung	320,219.7		307,5
Apple	225,850.6	15.9	191,4
Huwaei	104,094.7	7.3	68,08
Lenovi	72,748.2	5.1	81,41
Xiaomi	65,618.6	4.6	56,52
Others	635,368.5	44.6	539,6
Total		100	

Use the table above to complete the following questions.1. What was the size of the mobile phone market in 2014?

What was the size of the mobile phone market in 2015?)

een 2015 and	ž
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i

4.	Calculate the market share	of Apple in	1 2014 and S	amsung in 2015.

Calculate the market share of Apple in 2014 and Samsung in 2015.

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¹¹ http://www.gartner.com/newsroom/id/3215217

What has happened to the sales growth of Apple and Samsung between 20 Using the calculations completed in Questions 4 and 5 and any other releva firms do you consider to be successful, and why?

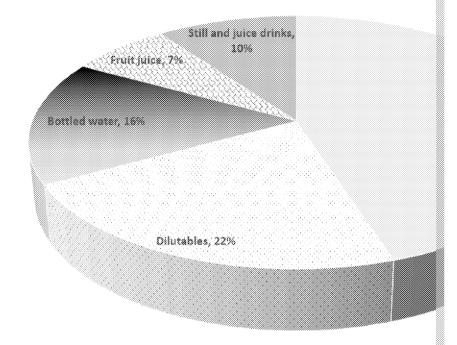
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Activity 6

In 2013, the UK soft drinks market comprised carbonated, dilutable, bottled water drinks. Fruit juice drinks are 100% fruit juice, while still and juice drinks contain 99 14,520 million litres were consumed at a value of £1.07 per litre. The 2013 consumers growth of 2.0% on the previous year. The market increased in value by 4.1% in consumers.

The following chart represents the **UK soft drinks consumption by sector for 201**



In 2013, the UK consumption of bottled water was 2,360 million litres, while in 2013

1.	Calculate the size of the UK soft drinks market for 2013 based on value.
2.	Calculate the size of the UK soft drinks market for 2012 based on litres.

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¹² http://www.britishsoftdrinks.com/write/mediauploads/bsda_annual_report_2014.pdf

3. Calculate the size of the UK soft drinks market for 2012 based on value. Calculate the value of the UK carbonated drinks market for 2013 based on contact the value of the UK carbonated drinks market for 2013 based on contact the value of the UK carbonated drinks market for 2013 based on contact the value of the UK carbonated drinks market for 2013 based on contact the value of the UK carbonated drinks market for 2013 based on contact the value of the UK carbonated drinks market for 2013 based on contact the uk carbonated drinks market for 2013 based on contact the uk carbonated drinks market for 2013 based on contact the uk carbonated drinks market for 2013 based on contact the uk carbonated drinks market for 2013 based on contact the uk carbonated drinks market for 2013 based on contact the uk carbonated drinks market for 2013 based on contact the uk carbonated drinks market for 2013 based on contact the uk carbonated drinks market for 2013 based on the uk carbonated drinks market for 2013 based on the uk carbonated drinks market for 2013 based on the uk carbonated drinks market for 2013 based on the uk carbonated drinks market for 2013 based on the uk carbonated drinks market for 2013 based on the uk carbonated drinks market for 2013 based on the uk carbonated drinks market for 2013 based on the uk carbonated drinks market for 2013 based on the uk carbonated drinks market for 2013 based on the uk carbonated drinks market for 2013 based on the uk carbonated drinks market for 2013 based on the uk carbonated drinks market for 2013 based on the uk carbonated drinks market for 2013 based on the uk carbonated drinks market for 2013 based on 2013 b Calculate the market growth of the UK bottled water market between 2012

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SECTION 4: MARKETING DATA

Part A: Specification Overview

The interpretation of marketing data is part of 3.3 Decision-making to improve normal appears within subsection 3.3.2, Understanding markets and customers. Studies positive correlation, negative correlation and strength of relationship, along with the concept of confidence intervals and extrapolation.

Part B: Theoretical Overview -

A business will review a range of internal and external market-related data, include

- revenue for different products
- revenue across different market segments
- competitors' revenues
- advertising expenditure across different products and its impact
- market share
- competitors' market share
- product demand at different price levels
- customer response to new products or product modifications

Analysing marketing data allows the business to understand the effectiveness of can its strengths be recognised, but also those areas which require development underperformance or increasing competition. This can lead to the business identification appropriate new strategies where necessary and implementing them.

Correlation

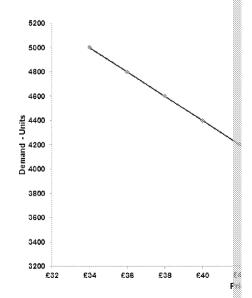
Correlation is a statistical measure that looks at the relationship between two value cream sales and temperature.

Correlation is measured between -1 and +1.

Negative correlation

The chart shows that at £34, 5,000 units of the product are sold, but at £50 the amount decreases to 3,400 units. This indicates a **negative relationship** between the price of the product and demand, because as the price goes up the demand for the product declines. If the business's objective is to sell more units it knows it will not be achieved through increasing the price. It should decrease the price.

The extent to which one variable will decrease as the other increases depends on the strength of the negative correlation is. If it is **-0.1** coefficient



there is a weak negative correlation. There is a relationship between the two varies means that an increase in one of them will result in a minor decrease in the other —0.9 there is a strong negative correlation, which means an increase in one of the in the other.

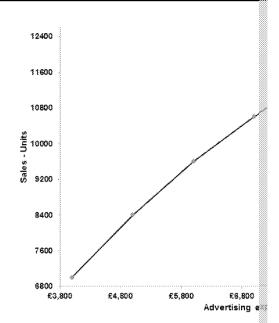
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Positive correlation

£4,000 of advertising produces sales of 7,000 units, but at approximately £9,000 sales increase to 12,000 units. This indicates a **positive relationship** between advertising expenditure and demand, as the more spent on advertising the greater the demand. If the business wishes to increase demand, it knows that increased advertising can help to achieve this objective.

The extent to which one variable will increase in relation to the other increasing will depend on how strong the positive correlation is. If it is *0.9 coefficient there is a strong*



positive correlation. There is a strong relationship between the two variables, we of them will result in a major change in the other. If the correlation coefficient is correlation, which means an increase in one of them will lead to a minor increase.

Zero correlation

A **zero correlation** means there is no identifiable relationship between two variables.

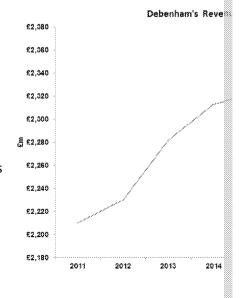
There appears to be no relationship between the weight of a customer and the number of academic books they buy. Customers who weigh 45 kg buy on average 2,500 books, while those who weigh 50 kg buy approximately 1,800 and those who weigh 65 kg or 70 kg buy 2,000 books. There is no clear link between the two variables.

4000 * Weademich Book Sales (Units) Academich Book Sales (Units) * 4000 * 1500 * 40 45 50 55 We

Extrapolation¹³

Extrapolation involves using past data to identify a trend and project it forward to make predictions about future trends, usually sales, customer numbers, etc.

There is an assumption that future trends will continue to follow past ones, as conditions are anticipated to remain relatively unchanged. If the market is subject to frequent change extrapolation is unlikely to be a useful tool to the business, as it will be difficult to predict future trends.





¹³ http://media.corporate-ir.net/media_files/IROL/19/196805/agm2015/2015_Annual_Report.pdf

It is still possible to predict future sales, if a future change is known, as it allows to it.

Future changes do not make the use of extrapolation redundant, if they are know change in the income tax rate, as it gives the business time to investigate the important of the company o

The dotted line represents the extrapolation of revenue from 2016 to 2018. This existing sales trend line. The line has been extrapolated to indicate continued sale rate. However, this can be influenced by numerous factors, such as a perceived stherefore, the extrapolated line could be drawn with a lower rate of sales growth.

Assuming all other factors remain the same it is predicted that the department so nearly £2,360m by 2018. However, changing market conditions, such as increased state of the economy, such as increasing unemployment, could influence the accuse

Confidence levels and intervals

A confidence level indicates how confident a researcher is that the market researcher

The confidence level is presented as a percentage, which shows how certain the would give an answer that lies within the confidence interval (see below). If the catheter that the research findings can be relied upon and are representative of the whole sample will be correct 19 times out of 20. If the confidence level is **55%** it means that the findings represent the population. The result of the sample will be correct would want the confidence level to be as near to 100% as possible, but 95% is confidence.

The confidence level is influenced by the sample size and the sampling method of the sample the more likely the findings will represent the population.

A **confidence interval** is the possible range of outcomes for a given confidence less The confidence interval (range) for the demand of a product at a 95% confidence units. If the confidence interval is smaller the confidence level will be lower, as the certain the researchers will be of the findings accurately predicting the outcome level for demand between 55,500 and 69,500 may decline to 65%.

The former confidence interval varied by 25,000 units (75,000 units – 50,000 units 14,000 units (69,500 units – 55,500 units). The larger the range of outcomes the will be accurate, thus resulting in a higher confidence level.

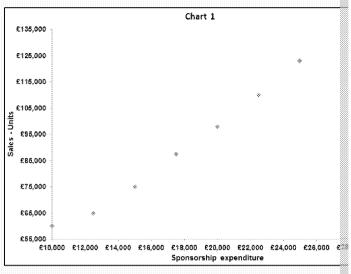
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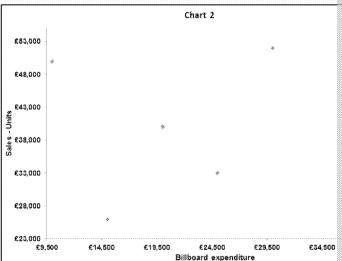


Part C: Example

Vibrant is a range of upmarket soft drinks that are produced by Rochelle Food Ltd. via supermarkets and independent retailers. The market is very competitive and in sused a variety of strategies to increase sales. The following marketing data has bedirector who needs to discuss with the board future marketing strategies.

Each chart shows the units sold when the different market strategy methods were usexpenditure.





Lastly, the correlation coefficient for radio advertising expenditure and unit sales is

1. What type of correlation relates to chart 1, and why?

Chart 1 demonstrates a positive correlation between units sold and sponsor sponsorship expenditure increases, so does the units sold, thus indicating a stwo.

2. What type of correlation relates to chart 2, and why?

Chart 2 indicates a zero correlation relationship between the units sold and appears to be no identifiable relationship between the amount spent on the change in sales.

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3. Explain the correlation of a product with a coefficient -0.01

This indicates there is a negative correlation relationship between radio advantage advertising expenditure increases this leads to a decrease in the quantity of the coefficient is close to zero this confirms there is little relationship between the impact of any change is guite minor.

4. Discuss the implications of these correlations for future Vibrant promotion strate

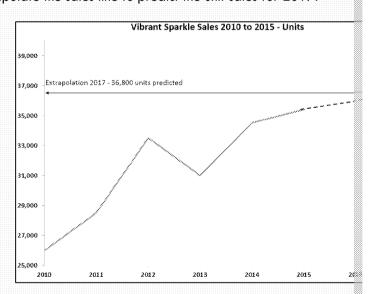
The positive correlation between sponsorship expenditure and sales suggests maintain this form of promotion strategy, as the increased sales improves the rate of increase appears to decline for any expenditure above £25,000 be wise not to spend above this amount.

Billboard expenditure is not an efficient use of the business's funds, as this a zero relationship, thus indicating there is no relationship between the two better used on other areas of the business which would have a positive impact.

The negative correlation of radio advertising and sales indicates that the bit this form of promotion to increase sales. However, as the coefficient is virtually negligible, and thus should not be pursued.

Overall, the business should only continue with sponsorship, as this is the operator of appears to have a positive impact on sales. The other methods demonstrate little. However, this does not prevent the business from considering other particles to sponsorship.

5. The chart below shows the sales of Vibrant Sparkle, a carbonated water drink the chart to extrapolate the sales line to predict the unit sales for 2017.



--- denotes extrapolation

36,800 unit sales are predicted for Vibrant Sparkle in 2017.

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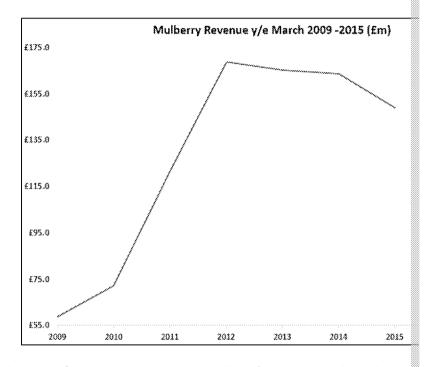
Part D: Practice Activity

Activity 7

Mulberry is an international luxury brand that specialises in women's and men's datebooks and leather-bound Filofaxes. Its product range also includes clothing as

Its operations are predominantly based in the UK. It sells through its own retail of as John Lewis.

While the Asian market was experiencing an extensive period of growth, and dispersive the period of growth and period o



1.	Explain the type of relationship between Mulberry's revenue and the dispos customers.	ä
		•

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¹⁴ http://www.mulberry.com/investor-relations/reports and http://www.mulberry.com/plugins/investor_relations/

2. Using the chart on the previous page, predict Mulberry's revenue for the year This will require you to extrapolate the revenue line first. Discuss whether Mulberry will be satisfied with the predicted revenue for 20

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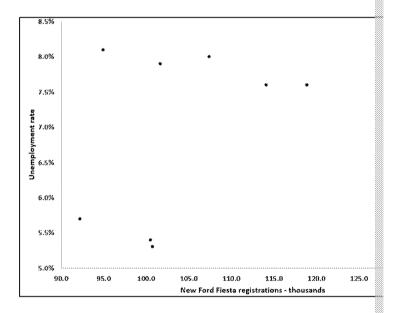
Activity 8

As purchasing a car can be a significant expense for a consumer it is often presunt the economic climate.

The Ford Fiesta for a number of years has had the highest UK sales for new-registry different, with over 133,000 such vehicles (source: https://www.gov.uk/government/scars). This is a significant improvement on 2006, when Ford Fiesta new registrations

Between 2006 and 2015, the unemployment rate, the percentage of the total labels has at its worse been 8.1% and at its best 5.3%.

The following chart looks at the Ford Fiesta's UK new car registrations in comparis



1.	Identify and explain the type of correlation that exists between the UK unem registration of new Ford Fiesta cars in the UK.

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¹⁵ VEH0261 table – https://www.gov.uk/government/statistical-data-sets/veh02-licensed-cars, http://www.starate-in-the-united-kingdom-uk/

Discuss the implications to Ford of the correlation which exists between the Fiesta new car registrations.

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SECTION 5: PRICE AND INCOME ELASTICITY

Part A: Specification Overview

The interpretation of price and income elasticity of demand to marketing decision them is part of 3.3 Decision-making to improve marketing performance section a 3.3.2, Understanding markets and customers. Students are required to interpret demand and be able to analyse the impact of changes in price and income revenable to calculate these, but the calculation process has been included to aid students.

Part B: Theoretical Overview -

Elasticity of demand is the measurement of how responsive customer demand is variable, i.e. price or income.

Price elasticity of demand (PED)

This measures how responsive customer demand is to a change in price of a product principle that if **price increases demand for a product will fall**, but if **price decre increase**. It is calculated by:

percentage change in quanity demanded percentage change in price

Calculating the percentage change is completed as follows:

change in demand (actual number) × 100 original demand

The above process can be used to find out the percentage change in price or incomes has to be used instead of demand, depending on which calculation is to be complete.

Ignore any negative in the price elasticity of demand coefficient, answer to the element for example, if it is -1.5, treat it as 1.5.

The **value of knowing the PED coefficient** is that it can be used to determine the of a change in price.

If the coefficient is **greater than 1** the product is **price elastic**. A small change in percentage change in demand. If the business wishes to **increase revenue** and the should **not increase price**, as this will lead to a larger percentage fall in demand the price, which will **result in revenue decreasing**. It should **decrease price**, as this will increase in demand, than the percentage decrease in price, **resulting in revenue**.

If the coefficient is **less than 1** the product is **price inelastic**. The demand for the presponsive to a change in price. A small change in price will lead to a smaller percentage business wishes to **increase revenue** and the product is price inelastic it should **interest in the price** as smaller percentage fall in demand than the percentage increase in price, which It should not **decrease price**, as this will lead to a smaller percentage increase in decrease in price, **resulting in revenue decreasing**.

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The following worked example demonstrates the process followed to calculate the

A motorcycle retailer has a PED of -1.6 for a Honda motorbike. The selling price pethis price is 50 motorbikes a year. What will be the effect on revenue if the selling £13,500?

Thus, in this scenario, if price is reduced by 10%:

- Demand will increase by 1.6 (ignore the negative) × 10%, i.e. 16%
- Demand will, therefore, **rise by 8** (50 x 16%) to **58** (50 + 8) motorbikes a year
- Revenue at the higher selling price is £750,000 (50 x £15,000)
- Revenue at the reduced selling price is £783,000 (58 x £13,500)
- Revenue will be £33,000 higher (£783,000 £750,000) if the selling price is

The price elasticity of demand can be influenced by a number of factors, including

- Availability of substitutes if consumers perceive a product similar to another switch to an alternative if their usual product's price increases. The greater amore price elastic the demand is for the product.
- Differentiation if customers consider the product to be unique an increase significant fall in demand, if any, as they will believe there is not a suitable at of differentiation results in demand for the product being more price inelast
- **Brand loyalty** a product with a strong brand image may acquire a significal The greater the level of brand loyalty, the more price inelastic demand is for
- Ability to switch to other products the ease of which a customer can charge can influence the price elasticity of demand. Some contracts have customer period of time, such as a mobile phone or gym membership contract. To switch to an alternative, the customer for ending the condifficult it is to switch to an alternative, the more price inelastic the product.
- **Types of product** necessity products which are essential for the survival of bread, are likely to be price inelastic. The demand is likely to remain relative increase. Products that are not essential for survival, such as a holiday, are relative.

Income elasticity of demand (YED)

This measures the responsiveness of demand to a change in income. It is calcula

percentage change in quantity demanded percentage change in income

Normal goods have a **positive** income elasticity of demand; demand increases as types of normal goods: **normal necessities** and **normal luxuries**. A normal necessibetween **0 and 1**. Demand increases in a smaller proportion to the income increase need to consume more of these products as income increases, e.g. washing power juice, etc. These products tend to be **income inelastic**. Demand will remain relative changes. A normal luxury product has a coefficient **greater than 1**. Demand increase income increase. Consumers are more willing to spend on luxuries as income level breaks, luxury chocolates. These products tend to be **income elastic**. Demand is changes.

Inferior goods have a **negative** income elasticity of demand; demand falls as income brand baked beans, tinned meat. As income levels increase consumers will

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The value to a business of knowing a product's income elasticity of demand is that aware of the impact on demand and revenue of changing income levels. This will most appropriate marketing strategy to implement, so the product or business relevels are decreasing and the product is income elastic, the business might reduce sales. In order to spread the risks associated with falling income levels a business products, so it is no longer reliant on a small number for success.

The limitations of both price elasticity and income elasticity of demand include

- historic data is used to calculate the coefficient; therefore, it may not be an a happen in the future;
- a time period on which to base the calculation of the elasticity of demand continuous However, different time periods may generate different outcomes. This make identify which time period to use, thus potentially resulting in the coefficient future, leading to wrong strategies being chosen and/or the business lacking choosing not to use it at all;
- this can be a timely and costly process, which results in it not being a viable and it is assumed that all factors remain the same, but the internal and extended the time of the coefficient's calculation may not remain the same in the future may have related to a period of economic downturn, but the future may be coefficient would not be applicable to the future.

Part C: Example

 Tick the appropriate column in the following table indicating whether the listed price inelastic.

	Price elastic	
Drinking water		
Bottled water	✓	
Holiday	✓	
Cigarettes	✓	
Clothing		

The price elastic items either have alternatives available or are non-essent increases demand they will have a larger proportional decrease and vice versare deemed necessities; therefore, if price increases demand will have a snavice versa. Cigarettes appear in both columns, as for some consumers it will item, while to others it has become a habit, thus a necessity.

2. Based on the price elasticity of demand coefficient, place a tick in the relevant the price should be increased or decreased for revenue to increase.

PED coefficient	Increase price	
-1.2		
0.8	✓	
2.4		
-0.3	√	

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- 3. A business increased prices by 15% which resulted in demand falling from 50
 - a) Calculate the price elasticity of demand.

Demand fell by 30%.

$$\frac{-30}{15} = -2PED$$

b) Advise the business on whether the price should be increased or decreas

The product is price elastic (remember to ignore the negative), as the Product demand is responsive to a change in price. Price changes result change in demand. If the business wishes to increase revenue it should not increase it.

4. A business's product has a PED of -2.5. Selling price per unit is currently £35 units, which generates a sales revenue of £280,000. What will be the effect 20% to £28?

A PED of 2.5 means that for every 1% change in price, demand (i.e. sales that if price is reduced, demand increases, and if price rises demand falls.

If price is decreased by 20%:

- demand will increase by 2.5 x 20% i.e. 50%
- demand will rise by 4,000 (8,000 x 50% = 4,000, 4,000 + 8,000) to
- revenue at the reduced selling price will be £336,000 (12,000 x £28)
- revenue will be £56,000 more (£336,000 £280,000) than it was
- 5. In relation to income elasticity of demand, tick the appropriate column in the forwhether the listed items are a normal necessity, normal luxury or inferior good

	Normal necessity	Normal luxury
Bread	✓	
Sports car		✓
Tea	✓	
Bus travel		
Own label tea		
Overseas holiday		✓

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- 6. Average income in the economy is anticipated to fall from £24,000 to £23,0 product is expected to fall from 8,000 to 6,400.
 - a) Calculate the income elasticity of demand.

$$\frac{-960 \times 100}{24,000} = -4\%$$

Income fell by 4%.

Demand fell by 20%.

$$\frac{-20}{-4} = 5 YED$$

b) Discuss how the income elasticity of the product could influence the market by the business.

The product has an income elasticity of demand coefficient which is perfectly the product is a normal luxury. Demand for the product will than income when the latter rises. Demand for the product will decrease income when the latter decreases.

At a time when the economy is performing well and consumers are exincome levels, the business will benefit from increasing demand, but diswill fall.

The business may use the marketing mix to create a strong brand implication levels are falling, consumers will perceive it as a must-have perpurchase, thus making it more income inelastic.

A broader product range could be developed by the business, so its per normal luxuries. The business is less reliant on one type of product for of survival, if demand falls for one or more of them.

7. Explain **one** disadvantage of a business using a price elasticity of demand co

The PED coefficient is based on historical data; therefore, there is no guar. It might indicate to a business a product has price inelastic demand, but if enter the market with similar or better products its demand could become increases the price expecting a higher revenue it would be surprised by the be a fall in revenue due to the fall in demand being proportionally higher to businesses who routinely monitor market trends and calculate the coefficient this drawback.

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- Part D: Practice Activity

Acti 1.	Activity 9 (Price Elasticity of Demand) L. Explain whether the following items' demand is likely to be price elastic or p			
	a)	Car MOT test		
	b)	42" Curved Smart HD television		
	c)	Pint of milk		
	d)	Coca-Cola		
3.	serv	ort-haul low cost airline, Fly Away, offers routes from Luton (London) A ice usually has demand of 140 customers paying £120 for a return ticke easing the price to £138 and it is anticipated that demand will change to		
	a)	Calculate the price elasticity of demand for the Luton to Verona route. 1		

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¹⁶ Note: this will not be assessed in the exam, but has been included to develop your understanding of the conce

Advise the business whether the selling price should be increased for the order to increase revenue. Explain **one** reason why the effect on revenue may not be as the busin c) To what extent could the business influence the price elasticity of dem

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A small independent bakery has a PED of 0.8 for American-style cupcakes. T is £1.50 and demand at this price is 50 a day. It plans to increase the selling What will be the effect on revenue if the selling price is increased to £1 a) Advise the business on whether the selling price should be increased or b) Explain **one** benefit to the business of being aware of the price elasticit products.



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Activity 10 (Income Elasticity of Demand)

- A national department store sells a range of training shoes under its name. area increased from £22,000 to £24,200. The business has noticed that the fallen from 800 to 600 pairs over the last year.
 - Calculate the training shoes' income elasticity of demand. 17

Explain whether the training shoes are a normal necessity, normal luxu

Explain one drawback to the business of being aware of the income ela c) for its products.

d) Discuss the implications to the business of your answer to b) above.

¹⁷ Note: this will not be assessed in the exam, but has been included to develop your understanding of the conce

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SECTION 6: OPERATIONS DATA

Part A: Specification Overview

Analysing the operational performance of the business is part of 3.4 Decision-make performance section and appears within subsection 3.4.2, Analysing operational required to calculate and interpret operations data, along with examining the use making. Students should be able to calculate, labour productivity, unit cost (averautilisation.

Note: Labour productivity is covered in Section 12: Human resource data.

Part B: Theoretical Overview

Operations management involves producing the product or service and providing standard required. A business may set itself operational targets to measure the efformer measurements include unit costs and capacity utilisation.

Unit costs – the cost of producing one unit of output.

total costs output

Capacity – the maximum amount of output a business can produce with the reso

Capacity utilisation – the percentage of maximum possible output that is being

 $\frac{\text{actual output per period} \times 100}{\text{maximum possible output per period}} = \%$

A business does not wish to be at full capacity (100%) continuously, as this would machinery/equipment or for staff training. Furthermore, staff could become strespressure to produce at the maximum output level all the time. Spare capacity all changes in demand, service machinery and train staff. However, spare capacity refixed costs are spread over fewer items, leading to lower profit margins. Also empinefficient if there is insufficient work to keep them busy, possibly resulting in the employer. A business may temporarily seek to increase its capacity to meet a she can be achieved through increasing the working hours of employees, reallocating the company and/or subcontracting the work to businesses.

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Part C: Example

Rosamund Café is a small business serving light snacks and drinks predominantly to Wharf. The lowest number of customers usually served during a week is 1,350 and cater for 1,800. The weekly costs of the business are as follows:

	1,350 customers	1,650 customers
Total variable costs	£1,620	1,650 customers £1,980 £1,500
Total fixed costs	£1,500	£1,500
Total costs	£3,120	£3,480

1. Calculate the unit costs of the business for 1,350 customers a week.

$$\frac{£3,120}{1,350}$$
 = £2.31 unit costs

2. Calculate the unit costs of the business for 1,650 customers a week.

$$\frac{£3,480}{1,650}$$
 = £2.11 unit costs

3. Calculate the unit costs of the business if it operates at full capacity for a week

$$\frac{£3,660}{1,800}$$
 = £2.03 unit costs

4. Explain the effect on the weekly unit costs of the business, if it serves more cus

The unit costs of the business will decrease as the café serves more customers spread across more of them, thus reducing the unit fixed cost with each as

5. Calculate the capacity utilisation of the business if the lowest numbers of custom

$$\frac{1,350 \times 100}{1,800} = 75\%$$

6. Calculate the capacity utilisation of the business if the highest numbers of cust

$$\frac{1,650 \times 100}{1,800} = 91.7\%$$

7. Explain one advantage to the business of not operating at full capacity.

Time will be available to train staff and service the machinery/equipment at full capacity.

Failing to train staff could result in errors being made, possibly regarding standards, which could lead to the business being prosecuted and fined.

Failure to service the machinery/equipment could result in it breaking down resulting in demand not being met and the reputation of the business suffer

Spare capacity allows the above problems to be avoided.

- 8. Explain **one** method the business could use so that it works nearer to full capa
 - · Increase demand through promotional offers
 - Reduce capacity open for fewer hours or reduce the number of staff

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Part D: Practice Activity -

Activity 11

Brenda's B&B provides a bed and breakfast service in Brighton, close to the beach levels are close to the 35 capacity. The owner, Brenda, employs a permanent par running of the business, but during the low season there can sometimes be very liveweekly occupancy levels and total costs of the business are below.

	Low season	
Average occupancy	20	
Total costs	£400	

1.	Calculate the capacity utilisation in low season.
2.	Calculate the capacity utilisation in high season.
3.	Calculate the change in unit costs between high and low seasons.
4.	Analyse one way the business could match supply to demand during the low employee's skills are often underused during this period.

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Activity 12

Huddersfield-based coach firm, Universal Travels, provides a Saturday service to a aged 21 and over who wish to attend a nightclub in the city. The price charged coand entry to a nightclub. A 49-seater coach is usually used. The number of custors has varied between 25 and 40 over the last month. To provide the service to 25 coabut increases to £800 with 40 customers.

The business has been approached to provide a similar service to London in additione. Due to high demand that weekend the business does have the capacity to procurrent organisation of resources. The firm is keen to provide this service, but required be achieved.

1.	Calculate the unit cost and capacity utilisation of the Manchester service, if
2.	Calculate the unit cost and capacity utilisation of the Manchester service, if
3.	Analyse the implications to the business of having a higher capacity utilisation

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Analyse one method the business could use to increase demand to at least 4 service. Advise the business of **one** strategy it could use, so that the London nightclu provided.

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SECTION 7: INVENTORY CONTROL C

Part A: Specification Overview

Influences on the amount of inventory held by a business is part of the 3.4 Decis financial performance section and appears within subsection 3.4.5, Making oper performance: managing inventory and supply chains. Students are required to in lead time, reorder levels, buffer level of inventory and reorder quantities.

Part B: Theoretical Overview

Inventory is another name for stock and consists of:

- raw materials and components
- work in progress products that are in the process of being made, but are r
- finished goods

This is fundamental to the success of a business, as without it production would available for sale online or through retail outlets.

Businesses have to be certain of selecting the right supplier, otherwise failure to trade efficiently. They will consider a number of factors when choosing a new sus

- provide a competitive price?
- meet the quality standard expected?
- meet the level of demand requested?
- be flexible accept lower or higher orders?
- guarantee they are financially secure and will not go out of business midway

A business will not necessarily choose a supplier because they offer the cheapest they believe will meet their expectations, even if this means having to pay a high alternative one.

A business will not want to hold too little inventory because:

- customers might choose a rival business, if their demand needs cannot be n
- there will be a longer lead time (the time between a customer placing an or stock was held
- the reputation of the business might suffer

A business will not want to hold **too much inventory** because:

- there is the danger it might perish (e.g. food manufacturer/retailer) or becommanufacturer/retailer)
- too much money tied up in inventory could result in the business missing out insufficient funds being available (opportunity cost)
- this can cause cash flow problems, as the business is reliant on selling the in.
 There is no guarantee that all can be sold and at the full price expected in a
- holding large quantities of inventory increases storage costs, as it has to be increase the size of warehousing required.
- the business might become a target for thieves who are aware it holds large could make it more prone to burglaries, which subsequently increase its ins

Managers typically will use **electronic points of sale** (EPOS) or **inventory control** inventory levels. EPOS involves the use of barcodes on items. As one is sold the barutomatically register within a database that there is one less item. When an order the database by a barcode on the packaging of the items received. The database

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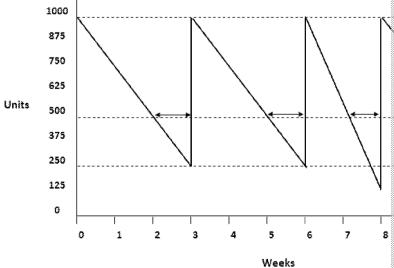


sold. Once a particular stock level reaches a particular reorder level an automatic supplier. This is typically used in the supermarket industry.

Inventory control charts are a means to manage the amount of inventory held. If over a period of time to be analysed with periods of excessive and/or limited inventagers to implement corrective measures, so the business is not in a position much inventory.

To use the inventory control charts successfully relies on the managers understance contained within them:

- Maximum stock level this is the maximum amount of inventory the firm velow, the business holds no more than 1,000 units of inventory at any time.
- Stock levels this shows the change in inventory levels over time for example received and items sold. The business starts with an inventory level of 1,000 falls to 250 units, thus indicating 750 units being used over this period. However, during week 4 the inventory increases back to 1,000 units. Between week 7 inventory at a faster rate, as it fell to its lowest level of 125 units in week 9. Week 4 despite being over a shorter period. This could be due to an unexpection.
- **Reorder level** shows the level of inventory at which the firm orders new standelivery of inventory, as there is a gap between ordering and receiving the iterated in week 3, week 6 and midway between weeks 8 and 9.
- Lead time the amount of time it takes between an order being placed and business is usually one week, as in week 3 stock was reordered and by week maximum level, thus indicating a lead time of one week.
- Minimum stock level the minimum amount of inventory the firm wants to known as the buffer stock. This provides the business with a certain amount supplier's order is delayed or if there is a sudden unexpected increase in demander a minimum inventory level of 250 units, but in week 9 it fell below this to 125 reasons for stock falling below the minimum level include:
 - an unexpected higher level of demand
 - a stock order being delayed
 - a department forgetting to reorder



Note:

◆ Denotes lead time

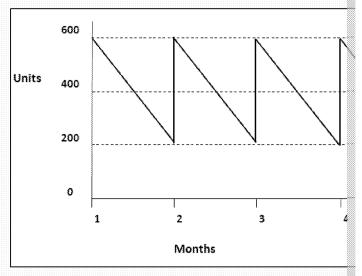
A business will never want to run out of stock, because this will halt production a able to source stock from elsewhere via a rush order, it is more than likely at a high profit margins, if the increased cost cannot be passed onto customers.

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Part C: Example

Use the chart below to answer the questions that follow it:



- What is the minimum stock level of the business?
 200 units
- What is the maximum stock level of the business?
 600 units
- 3. What is the reorder level?
 400 units
- 4. What is the lead time?

Approximately two weeks. For example, stock is ordered midway through a start of month 2, thus indicating a lead time of around two weeks.

5. What is meant by buffer stock?

Buffer stock is the minimum amount of inventory a business wants to hold business.

6. A new customer places an order for 500 units of inventory midway through matthe end of the same month. What are the implications to the business of taking

These are the possible implications:

- Midway through April the business only has 400 units; therefore, the existence without ordering more stock.
- If the business orders stock immediately it will take two weeks to be defulfil the order, as it would not arrive on time, unless its suppliers can might charge more for doing this.
- If the suppliers charge more for rushing through the order it might not onto the new customer; therefore, it might be accepting a lower profit customer.
- The reputation of the business might also suffer, if it is unable to service and chooses to delay those of existing customers. Loyal customers might lower demand, revenue and profits. This means the new customer is no
- However, if the new customer leads to a substantial increase in demanded be worth taking the risk of providing this order above those of some ex
- None of the above is an issue, if the suppliers can supply in good time at to meet the orders of the new customer and existing ones.

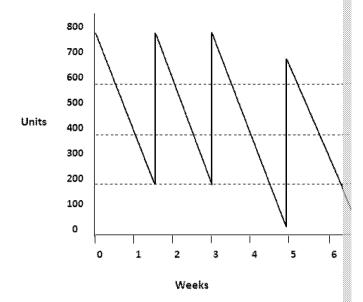
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Part D: Practice Activity

Activity 13

Use the inventory control chart below to help you answer the questions that follow



1.	What is the minimum stock level of the business?

2.	What is the maximum stock level of the business?		

3.	What is the reorder level?

→.	what is the average lead time between weeks o and 5:	
		3
		8

5.	Discuss whether the inventory control of the business has been effective.

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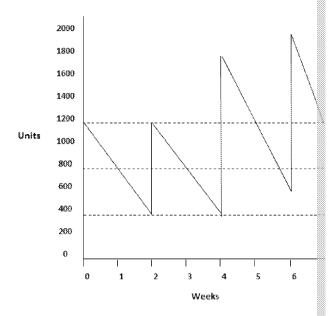
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Activity 14

Francesco Footwear designs and manufactures shoes that are sold through establishment stores. Since it commenced trading in 2008 it has enjoyed great succepters, despite high levels of demand, this has not always been reflected in profits.

The new managing director, Colleen Thompson, believes part of the problem lies



1. What is the maximum inventory level for Francesco Footwear?

. What is the inventory reorder level for Francesco Footwear?

3. What is the minimum inventory level for Francesco Footwear?

4. What is the average lead time between weeks 0 and 4?

6. Discuss whether Francesco Footwear's profit issues can be attributed to its

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SECTION 8: BUDGETS

Part A: Specification Overview

Constructing and analysing budgets is part of the 3.5 Decision-making to improve and appears within subsection 3.5.2, Analysing financial performance. Students are analyse budgets, including variance analysis; adverse and favourable variances.

Part B: Theoretical Overview -

A **budget** is a target of costs and income that is to be achieved within a specified can provide several benefits:

- The performance of the business or budget area can be measured against the success.
- The review and monitoring of the budget against actual performance can his be of concern, for example costs are higher than expected or income is lower flags up to the budget holder and/or managers such areas, which could stime establish the reasons behind the differences and remedial action can be impleappropriate. For example, stock costs may be higher than anticipated due to business may choose to provide further training to staff, so that stock is hardeducing waste.
- A manager or team that has been given responsibility for the control of a but in accordance with Herzberg's two-factor theory. Performance that is measuresult in employees being recognised positively, which also could be motival hierarchy of needs and Herzberg. This could result in employees giving their improved productivity and higher standards being achieved, along with a low
- Setting a budget can ensure that business spending is focused on the corporation of individuals. This allows funds to be allocated accordingly.

There are a number of disadvantages associated with using budgets:

- A budget holder may not have the required skills to manage their budget accause undue stress and areas of overspend or lower than expected income no appropriate intervention being taken. The business may have to incur training budget holder to acquire the necessary skills.
- Budgets may be allocated based on the negotiation skills of the budget hold budget far greater than needed as they are able to present a very persuasive not possess these skills will be allocated one which may not be sufficient for
- Some budget holders focus on the short term and will take every action possible.
 This may appear advantageous, but during this process opportunities that colong term performance of the business are forgone.

Variance analysis is the process of monitoring budgets against the actual perform

Variances – the difference between the budgeted income, expenditure or profits income or profit which is higher than the budget is known as a **positive** or **favoure** lower is known as a **negative** or **adverse variance**. Actual expenditure which is he a **negative** or **adverse variance**, while one that is lower is known as a **positive** or

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Budget XYZ

	Budget	Actual
Income	£350,000	£425,000
Expenditure	£270,000	£350,000
Profit	£80,000	Actual £425,000 £350,000 £75,000

In the above example, the income variance is favourable as the business has ache budgeted. The expenditure variance is adverse, as the business has spent £70,000 variance is favourable, as the business achieved £5,000 more profit than expected

Note: F is favourable variance and A is adverse variance.

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Part C: Example

Heming's Driving School provides driving lessons to learner drivers and advanced accredited by the Institute of Advanced Motorists. Elizabeth Heming wishes to comperformance to the budgets set. The incomplete budget and actual statement is as

	Budget	Actua
Income		
Learner driver sales	£33,600	£38,640
Advanced driving course sales	£11,200	£10,080
Total income	£44,800	£48,720
Expenditure		
Fuel	£13,440	£15,450
Insurance	£2,700	£2,500
Car servicing	£850	£990
Labour costs	£24,500	£26,000
Total expenditure	£41,490	£44,940
Profit/loss	£3,310	£3,780

1. Calculate the income, expenditure and profit budgets for the business.

See the table above for answers and below for the calculations.

Income budget £33,600 + £11,200

Expenditure budget £13,440 + £2,700 + £850 + £24,500 =

Profit budget £44,800 – £41,490

2. Calculate the income, expenditure and profit variances for the business.

See the table above for answers and below for the calculations.

Income variance £48,720 - £44,800 = £3,920 F Expenditure variance £44,940 - £41,490 = £3,450 A Profit variance £3,780 - £3,310 = £470 F

Please note that any negatives which occur in the answer do not need to the difference is stated including whether it is an adverse or favourable value.

3. Explain how a budgeting system may help the business to control expenses.

The business can compare its performance with each target. This can highlimay need to be given to controlling spending, if adverse expenditure variate to improve sales require implementation, where adverse income variances

Comparing the budget with the actual outcomes would have highlighted a expenditure, which are higher than expected:

- Fuel costs have an adverse variance. If fuel costs are increasing generally
 the budget for this area, so it is realistic. However, it may still try find
 fuel, so the expenditure on this area is stabilised or lowered.
- Labour costs have an adverse variance. This could be attributed to a passoccurring, as learner driver sales were higher than expected possibly dust business may choose to not increase the wages in the coming year.
- Servicing costs had an adverse variance, which were £90 higher than as
 for the business to seek an alternative provider for such a small overspector service has been reliable and efficient.
- Insurance had a favourable variance. The business may seek to reduce the
 if this cost can be sustained, and allocate it to an area which needs a business.

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Part D: Practice Activity -

Activity 15

A small florist's budgeted income was £3,150 and budgeted expenditure £2,250 for are expected to be 20% higher in February.

Complete the following budget and actual performance statement for the base
 February budget and actual performance statement

	Budget	Actual
Income		£3,600
Expenditure		£2,500
Profit		£1,100

2.	To what extent is setting a budget of value to an international florist chain,	S
	British unit?	
		•••
		•
		•••
		••
		•
		•
		•••
		•••

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Activity 16 Sunlight is a bakery and coffee shop in Norfolk, who recently expanded into provi occasions. In previous years the business was concerned its stock costs were high should be, as it did not produce a budget. A business advisor suggested it was im appropriate decision-making can occur. The business produced its first budget las Fill in the spaces below to complete the budget and actual performance sta **Budget Actu** Income Bakery and coffee shop sales £220,500 £234,4 Catering service sales £24,500 £25,0 Total income £259.5 Expenditure Materials £73,500 £85,0 Wages £130,400 £136,9 Rent £12,000 £12,0 Marketing £13,500 £17,6 Total expenditure £251,5 Profit/loss £7,93 2. Explain one reason why Sunlight should produce a budget. 3. To what extent were the owners right to be concerned about the amount sp

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SECTION 9: CASH FLOW FORECASTING AN

Part A: Specification Overview

Constructing and analysing cash flow forecasts is part of the 3.5 Decision-making performance section and appears within subsection 3.5.2, Analysing financial perconstruct and analyse cash flow forecasts.

- Part B: Theoretical Overview 🔻

A cash flow forecast predicts the amount of cash to come in and go out of the but

It indicates when cash shortages may occur, alerting the business to take action to avoid it. Predicted short-term cash flow problems could be resolved with an overdraft or negotiating with suppliers for longer to pay. The business may ask debtors to pay quicker or unwanted assets may be sold to provide an injection of cash.

Long-term cash flow problems may require a loan or new owners joining the business.

The key elements are:

- Cash inflow money coming into the business usually from sales.
- **Cash outflow** money going out of the business usually to pay bills.
- **Net cash flow** difference between cash inflows and cash outflows.
- Opening balance the amount of cash anticipated at the start of a period; the closing balance of the previous period.

Closing balance – the amount of cash anticipated at the end of a period. A reindicates a business will not have sufficient cash to meet expected payments flow indicates there will be enough.

Cash and profit – it is often presumed that a profitable business will be cash rich. Many businesses provide trade credit; customers receive the product or service amount owed. On paper the business has made a profit from this form of trade; bank balance until the customer settles their debt.

Cash is important in the **short term** to meet the payments as they fall due, as this business to continue trading. However, profit is essential, at least in the **long ter** cannot grow, as funds are not available for product development, expanding into

A business may experience **cash flow problems** because:

- it is holding too much stock, their money is tied up in products. If the stock lack invested in it will not be recovered, as it cannot be sold;
- trade debtors take longer to pay than they should, therefore reducing the case
 it difficult for the business to pay the expected cash outflows;
- an overtrading (growing too fast) business will have high rate of cash outflow equipment, stock, hiring new staff, etc. However, the cash invested in this extraight away, as the cash inflows from such activities are not generated immediately.
- unexpected changes in demand could result in fewer products sold and cash

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A) Cash inflows

Owner's capital

Total cash inflows

B) Cash outflows

Cash sales

Credit sales

Materials Labour

Telephone

Marketing

Other expenses

Total cash outflows

C) Opening balance

D) Net cash outflow (A -

E) Closing balance (C

Rent

The **benefits** of a cash flow forecast:

- the timing of cash in and out of the business is identified, thus allowing rembefore a negative (deficit) occurs, such as arranging an overdraft;
- periods when positive cash should be available are recognised, which allows resources will be available for new business strategies;
- it allows the business to identify ways to make any anticipated positive funds business, such as opening an interest bearing account in preparation to depathey become available, rather than leaving them in a non-bearing interest a
- it allows the business to plan ahead, as it will know when cash will be availaded
- potential lenders are more inclined to lend, if they believe the business has means to repay any loan provided.

The drawbacks of a cash flow forecast:

- it is based on estimates; therefore, it is only as good as the estimates used;
- the production of a cash flow forecast can be complex and time-consuming;
 more likely to have the resources to invest in this process; and
- it cannot forecast for unexpected changes in market conditions.

Part C: Example

1. Swan Clothing Designs is owned by Salina Choudhary. She designs urban stindependent retailers. Complete her cash flow forecast for the first three months the following data:

Sales – Jan £8,000, Feb £9,500, Mar £13,500

Loan received - Feb £1,500

Materials – Jan £5,400, Feb £6,000, Mar £7,000

Rent – Jan £1,500, Feb £1,500, Mar £1,500

Wages - Jan £2,200, Feb £2,200, Mar £2,200

Electricity - Mar £350

Advertising - Jan £500

Other expenses – Jan £500, Feb £500, Mar $\pounds 750$

Swan Clothing D

A) Cash inflows

Loan received

Sales

Total cash inflows

B) Cash outflows

Materials

Rent

Wages

Electricity Advertising

Other expenses

Total cash outflows

- C) Opening balance
- D) Net cash outflow (A B)
- E) Closing balance (C +

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2. Comment on the forecasted cash flow position of Swan Designs Clothing.

For both January and February it is anticipated that the business will have pay bills. This could damage its reputation, if bills are paid late or are unperfusing to provide further supplies or insisting on payment before delivered

If the business exceeds its bank balance without permission it could incur be further deepen any cash flow problems.

The planned injection of cash in February (loan) will help to reduce the exbut will not resolve it completely, as it will not be positive until March.

Salina should be concerned to some extent, as the first two periods are explainable. In fact the initial problem will be caused by the anticipated Janus from then onwards it is expected to improve, as cash inflows will be more should be pleased to know it is a short-term problem rather than long-test anticipated to be positive by March.

3. Salina Choudhary is planning to obtain a loan in February. Advise her on when appropriate course of action to resolve any expected cash flow problems.

The cash flow problem is expected to be short term, as it is less than one generative would be appropriate rather than a medium—to long—term one, so the could arrange an overdraft which will allow her to spend more than so may be preferable as she will only be charged if she makes use of the facility charges straight away, as soon as it is issued, regardless of whether the but of it or not.

As January's expected expenditure is the cause of the problem, as the netanegative, she might decide to wait until March for the advertising campais and/or negotiate with suppliers for longer to pay bills, thus delaying payness.

4. Explain one reason why Salina might be cautious about the cash flow forecas

Salina could be cautious about the cash flow forecast for any one of the foliotist accuracy:

- changing consumer tastes, resulting in lower or higher levels of demand
- increasing costs due to inflation resulting in higher than expected costs
- poor market research leading to the wrong marketing mix being follows sales
- Salina's experience within the market; a new business owner could lack together an accurate cash flow forecast

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- Part D: Practice Activity –

Activity 17

1. Jonathan McGovern runs a garage that provides a repair service and sells a Complete the following cash flow forecast for McGovern's Garage.

McGovern's Garage – Cash Flow Forecast

	May	
Cash inflows		
Repair sales	£9,000	
Car sales	£2,000	
Total cash inflows	£11,000	
Cash outflows		
Materials	£2,250	
Car purchases	£3,500	
Rent	£2,000	
Wages	£2,500	
Electricity	£150	
Advertising	£500	
Other expenses	£500	
Total cash outflows	£11,400	
Opening balance	£800	
Net cash flow	-£400	
Closing balance		

2.	Advise the business on whether any action may be required regarding their

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Activity 18

Majestic Electronics sells a range of electrical items including televisions, washing well as providing a repair service. At the start of each year demand is usually low available to spend due to increased costs over Christmas. The business expects to next year of £1,125 with expected cash flows for the first two quarters (QTR) as for the first two quarters (QTR) and (QTR) are the first two quarters (QTR) are the first two quarters (QTR) and (QTR) are the first two quarters (QTR) are the first two qTR.

- Repair sales £1,300 (QTR1), £2,175 (QTR2)
- Electrical sales £6,500 (QTR1), £10,875 (QTR2)
- Stock £5,175 (QTR1), £6,600 (QTR2)
- Labour £2,440 (QTR1), £2,625 (QTR2)
- Rent £1,200 (QTR1), £1,200 (QTR2)
- Utilities (gas/electricity) £525 (QTR1), £525 (QTR2)
- Telephone £210 (QTR1), £210 (QTR2)
- 1. Complete Majestic Electronic's cash flow forecast for the first two quarters

	Quarter 1	
Cash inflows		
Repair sales		
Electrical sales		
Total cash inflows		
Cash outflows		
Stock		
Labour		
Rent		
Utilities		
Telephone		
Total cash outflows		
Opening balance		
Net cash flow		
Closing balance		

•	Majestic Electronics' owner, Paul Bennett, believes that trade will be low as He is considering introducing a new owner to the business, so that any pote avoided. Advise the owner accordingly.	-933
		•

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Discuss whether a small business owner like Paul Bennett should take the ti forecast.

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SECTION 10: BREAK-EVEN ANALY

Part A: Specification Overview

Constructing and interpreting break-even is part of the 3.5 Decision-making to insection and appears within subsection 3.5.2, Analysing financial performance. Stationally and interpret on a break-even chart the effects of changes in price, outparts analysing the value of break-even analysis. Break-even output, margin of safety, contribution is included within this.

- Part B: Theoretical Overview

Contribution is a measure of the amount each product or service contributes tow (overheads) of the business. Once fixed costs are covered the contribution from service sold is profit.

contribution per unit = selling price unit – variable costs

total contribution = contribution per unit \times number of unit \times num

total contribution = revenue – total variable cos

A business can use the contribution approach to determine which products contributed costs of the business or generate the highest level of profit, once these

	Product A
Selling price per unit (sp p/unit)	£250
Variable (direct) cost per unit (vc p/unit)	£140
Contribution per unit (sp p/unit – vc p/unit)	£110
Sales (units)	5,500
Total contribution (sales × contribution p/unit)	£605,000

In the example above, Product A has the lowest contribution per unit at £110, but towards covering fixed costs when the total contribution is taken into considerate both these products go towards covering fixed costs. If the business has fixed costs achieved (£605,000 + £572,000 – £635,000).

The contribution approach can assist a business in deciding whether a **special or** This is usually at a lower price than normal orders and does not necessarily conforthese. In reaching a decision the business would identify whether the special order contribution or not. If it is negative the business would be supplying the order at financially worthwhile. If the special order is positive some of the following factor the business in reaching its decision:

- Is there spare capacity?
- What is the impact on existing orders?
- How might existing customers react to paying a higher price?
- Will the order increase fixed costs?
- Will the order lead to future sales?

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Break-even is where the business does not make a profit or a loss; revenue equal calculate break-even three pieces of information are required:

- selling price per unit
- variable cost per unit
- total fixed costs

Calculating break-even – there are three methods that can be used to calculate demonstrated below are based on the following:

- selling price per unit = £10
- variable cost per unit = £5
- fixed costs = £50

1. Contribution method

fixed costs
contribution per unit

$$\frac{£50}{£10-£5}$$

Break-even output = 10 units

2. Table method

Refer back to Section 1 for a reminder on how to calculate each of the items

Output	Revenue	Total variable costs	Fixed costs	
0	0	0	50	
5	50	25	50	
10	100	50	50	
15	150	75	50	

Reviewing the profit/loss column allows a business to identify where £0 apper business has not made a profit or a loss and therefore the level at which it by 10 units.

The business has total costs of £50 at zero output level even though the business. It still has fixed costs that have to be paid regardless of whether a prexample, the business would still have to pay rent, insurance and salaries.

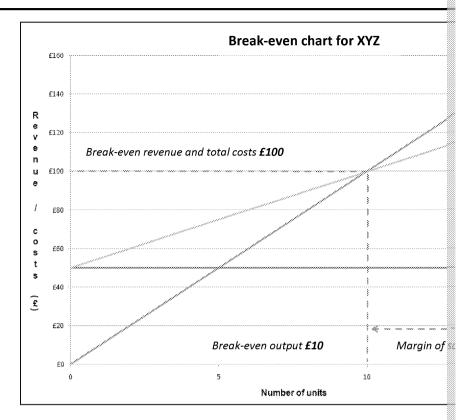
3. Charting method

The only lines that need plotting are the **revenue** and **total cost lines** to estal level, but total variable costs, fixed costs could be included in addition to the

The exam boards usually require students to deal with linear (straight) lines amendment of a break-even chart. It is not necessary to plot every single pier Plotting two will be perfectly adequate, as the line is linear. For example, in plot the revenue at zero output and at 15 output. Once these two points have draw a straight line joining the two points together. This process should be to data that are to be included in the chart.

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Break-even occurs where the revenue and total lines cross, as this is where the bound profit nor loss. The break-even output is 10 units, while the break-even revenue

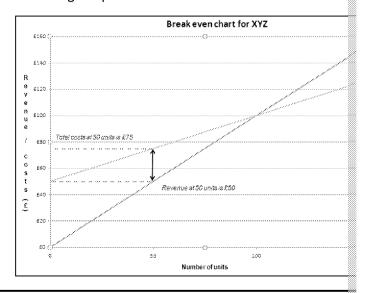
Margin of safety is the difference between the break-even output level and actual producing at. This provides an indication of how far sales can fall before the business.

margin of safety = break-even output - actual out

A business will use the chart to find both revenue and total costs at a specified of identify the profit or loss that is expected at different levels of output.

The process is quite straightforward. All that is required is to identify the revenue output level. The following formula is used to ascertain whether a profit or loss is

For example, in the break-even chart below £50 revenue is achieved at an output costs are £75. A business choosing to operate at this level would make a loss of £



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Benefits of break-even analysis – the completion of break-even analysis can supplinance, along with providing a useful business decision-making tool. A business output will know that its marketing strategy may need amending in order to increbreak-even. Without this knowledge it may be unknowingly trading at a loss. Furtiool, as it allows the business to identify the impact on the break-even output, if costs change.

Drawbacks of break-even analysis – there is an assumption that what is produced as some may not sell. Furthermore, there is an assumption that both price and value to a product or raw materials, for example, are bought in bulk they may be at due to a bulk-buying discount. Costs and prices do not always remain the same.

Part C: Example

The example is based on the data in Section 1 within the Part C: Example section.

- Calculate the total contribution based on the 80 customers Simone's Sandwich
 £3.75 (amount spent per customer) £1.25 (variable cost per customer) = £
 £2.50 × 80 = £200 total contribution
- 2. How many customers a week must Simone's Sandwich Shop have in order to be method to work out break-even.

$$\frac{£625 \text{ (fixed costs)}}{£2.50 \text{ (contribution per unit)}} = 250 \text{ customers per week}$$

3. Simone's Sandwich Shop's is in the process of negotiating a new lease and inscosts should be reduced to £500 per week. Calculate the new break-even outable method.

Customers	Revenue	Total variable	Fixed costs	
	£3.75 $ imes$ customers	£1.25 × customers		To
0	£0.00	£0.00	£500.00	
50	£187.50	£62.50	£500.00	
100	£375.00	£125.00	£500.00	
150	£562.50	£187.50	£500.00	
200	£750.00	£250.00	£500.00	
250	£937.50	£312.50	£500.00	
300	£1,125.00	£375.00	£500.00	

Simone's Sandwich Shop's new break-even output level is **200 customers** \$50 customers.

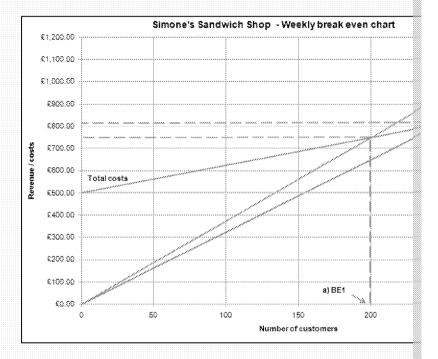
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4. The business has decided to pass on its savings in total costs to its customers the average spend per customer being reduced to £3.25.

- a) Label the break-even output level before the reduction in prices on the c
- b) Plot the new revenue line and label it as REV2.

 Hint: Plot the revenue at **0** customers then choose another output level and placehieved at that, e.g. £325 (100 × £3.25) at 100 customers. As the line is two points plotted together and extend to the maximum output point available.
- c) Label the new break-even output level on the chart below as BE2.
- d) What is the new break-even output level due to the price decrease?



The new break-even output level is 250 customers a week, which is a

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Part D: Practice Activity -

Activity 19

Smyth Special Occasions is a business that organises special events including weden anniversary parties. The business charges each customer £1,000 to organise the event £1,000 per week, which includes the event planner's and office assistant's sale heating and lighting. The business usually organises four events per week. The var event totals £500.

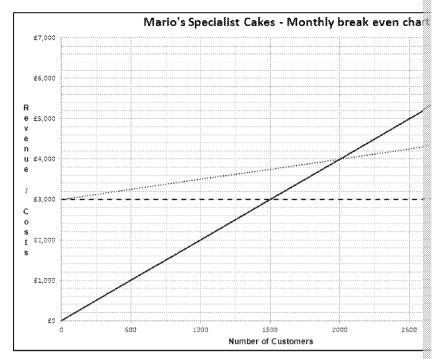
eve	nt totals £500 .
1.	Using the contribution method, calculate how many customers per week Sm to break even.
2.	Assuming Smyth Special Occasions continues to have at least four customer margin of safety.
3.	Comment on the break-even position of Smyth Special Occasions at present
4.	Smyth Special Occasions has been approached by a potential customer to a time. The customer is not willing to pay the usual £1,000 associated with eat to pay £800. Advise the business on the factors that should be considered by

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Activity 20 Mario's Specialist Cakes produces cupcakes for special occasions, including wedd audience is across the West Midlands. The selling price per cupcake is £2 with va one. The business has fixed costs of £3,000 per month. The business usually produced month. Complete the break-even table below for Mario's Specialist Cakes. **Total variable costs** Output Revenue **Fixed costs** Tot a 0 £0 £0 £ £250 500 £1,000 £3,000 £3 £2,000 £500 £ 1000 £3,000 £750 1500 £3,000 £ 2000 £4,000 £1,000 £3,000 £ 2500 £5,000 £1,250 £3,000 3000 £6,000 £3,000 £ 2. How many cupcakes must the business sell a month to break even? **COPYRIGHT PROTECTED** Explain why Mario's Specialist Cakes has total costs of £3,000, if no cupcake zero level of output.

4. Mario's Specialist Cakes is planning to increase the selling price of each cupon not to continue selling 3,000 cupcakes a month, as demand is predicted to face the selling 3,000 cupcakes a month, as demand is predicted to face the selling 3,000 cupcakes a month, as demand is predicted to face the selling 3,000 cupcakes a month, as demand is predicted to face the selling price of each cupcakes a month, as demand is predicted to face the selling price of each cupcakes a month, as demand is predicted to face the selling price of each cupcake and the selling



Using the graph above to complete the following:

- a) Label the original break-even output BE1.
- b) Label and state the margin of safety on the chart before the price incre
- c) Plot the new revenue line and label it REV2.
- d) Label the new break-even output BE2.

e)	What is the new break-even output level for Mario's Specialist Cakes?
f)	Use the chart to work out how much of a profit or loss will be made if 2 month at the new price.
g)	How does the use of a break-even chart benefit Mario's Specialist Cake increase the selling price or not?

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SECTION 11: PROFITABILITY ANAL

Part A: Specification Overview

Analysing profitability is part of the 3.5 Decision-making to improve financial per within subsection 3.5.2, Analysing financial performance. Students are required to the profitability of gross profit, operations profit and profit for the year.

Part B: Theoretical Overview

The success of a business can be measured in a number of ways including customs share, brand awareness, employee retention, etc. One of the most popular ways profits and/or profitability.

Profits – the amount of money left from revenue once all costs have been deduc

Gross profit – gross profit is revenue less cost of sales. The costs associated with the service have been deducted from revenue, such as raw materials and machine overheads have not been deducted.

gross profit = revenue – cost of sales

Operating profit (net profit) – the profit left after all operating costs have been deprofit less overheads, those costs that are not directly linked to the production profit less costs (rent) and marketing costs. This represents the profit achieved activities of the business.

operating profit = gross profit – overheads

Profit for the year (earnings) – the profit left after all costs have been deducted and interest charges on borrowings. This indicates to the board of directors and can be allocated to the shareholders (dividends) and the amount that should be with future strategies and growth.

Profit for the year = operating profit – all other costs (e.g. taxes,

Profitability – the ability of a business to generate profits above its costs. It is usurevenue (gross profit margin, net profit margin or operating profit margin) or net

Gross profit margin – the percentage of revenue which is gross profit. For the year group's gross profit margin was 40.1%, which means that for every £1 of revenue exthe year ending March 2014 it was 35.1%; therefore, for every £1 of revenue earnewww.google.co.uk/finance?fstype=ii&q=NASDAQ:RYAAY). A higher gross profit margin period or similar rival business indicates that the business is more efficient at manager proportion of gross profit is generated from revenue. As Ryanair's gross profit margin 2014 and 2015, this indicates that the business was more efficient at managing its

$$\frac{\text{gross profit}}{\text{revenue}} \times 100 = \%$$

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Operating profit margin – the percentage of revenue which is operating profit. For 2015, the Ryanair group's operating profit margin was 17.4%, which means that £0.17 was operating profit. For the year ending March 2014, it was 11.7%; therefore arned nearly £0.12 was operating profit (source: www.google.co.uk/finance?fstypoperating profit margin in comparison to a previous period or similar rival businessmore efficient at managing its overheads, as a greater proportion of net profit is Ryanair's operating profit margin improved by £0.05 between 2014 and 2015 this more efficient at managing its overheads.

$$\frac{\text{operating profit}}{\text{revenue}} \times 100 = \%$$

Profit for the year margin – the percentage of revenue which is profit after all cosprofit from non-trading activities has been included, including finance charges and March 2015, the Ryanair profit for the year margin was 15.3%, which means that £0.15 was the profit for the year. For the year ending March 2014, it was 10.4%; revenue earned £0.10 was profit for the year (**source: www.google.co.uk/finance?f** higher profit for the year margin indicates the business is more efficient at manacharges on borrowing, fuel charges and the wage bill. As Ryanair's profit for the between 2014 and 2015 this indicates it is more effective at managing its costs, as proportion of profit from its sales. This would indicate to the board of directors to a dividend and/or retain profits for future strategies, such as launching its airline.

$$\frac{\text{profit for the year}}{\text{revenue}} \times 100 = \%$$

Analysing the profitability of a business is of value because:

- it allows a business to understand how it has performed;
- identifies areas that require improvement; and
- directors can be assured about whether to allocate a dividend to shareholden new strategy.

However, the **drawback** is that the process is based on historical data and there is reflect the future. The business may analyse its profitability, but in future years to competitiveness of the market or economic conditions change. Decisions based take a while to implement and by the time they are introduced the market may be could mean that the business misses out on new opportunities or does not have and implemented to deal with increasing competitiveness, because it is too focus

There are a number of ways the profits or profitability of a business could be imp

- Lower costs this can be achieved by reducing waste, finding a cheaper supprofit margins to improve, assuming prices remain the same. However, if a number required quality materials or is unreliable at meeting deadlines, the repulsion of the loss of customers.
- **Increase prices** a higher price will increase profit margins, but this may be a strong loyalty towards the product and are likely to purchase from a rival
- Increase sales/output if the business sells more products its fixed costs will units, resulting in lower unit costs and higher profit margins. However, staff pressure to increase output or sales, possibly leading to mistakes occurring,

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Part C: Example

R C Francis PLC is a global business that produces a range of soft drinks. It has expendent is highly competitive and dominated by a well-known international brand. In relative expressed concern regarding its performance.

	2014 (£'000)	2013
Revenue	1 <i>66,775</i>	15
Gross profit	87,784	77 -
Operating profit	22,827	18,
Profit for the year	17,345	12

1. Calculate the gross profit margin for R C Francis PLC for 2013 and 2014.

$$2014 \qquad \frac{87,784}{166,775} \times 100 = 52.6\%$$

$$2013 \quad \frac{77,443}{151.056} \times 100 = 51.3\%$$

2. Calculate the change in operating profit margin for R C Francis PLC for 2013

$$2014 \qquad \frac{22,827}{166,775} \times 100 = 13.7\%$$

$$2013 \quad \frac{18,338}{51,056} \times 100 = 12.1\%$$

The operating profit margin increased by 1.6% (13.7% - 12.1%)

3. Calculate the change in operating profit margin for R C Francis PLC for 2011

$$2013 \quad \frac{12,386}{151.056} \times 100 = 8.2\%$$

The profit year margin increased by 2.2% (10.5% - 8.3%)

4. Assess the likely importance of the business's financial performance between 2

The financial position of the business has improved. In relation to the 2014
£1 of revenue nearly £0.53 was gross profit, which is an improvement in £0.02 to £0.51. The business appears to be more efficient at managing it

2013 operating profit margin for every £1 of revenue over £0.12 was operating profit margin for every £1 of revenue over £0.12 was operating profit margin for every £1 of revenue over £0.12 was operating profit margin for every £1 of revenue over £0.12 was operating profit margin for every £1 of revenue over £0.12 was operating profit margin for every £1 of revenue over £0.12 was operating profit margin for every £1 of revenue over £0.12 was operating profit margin for every £1 of revenue over £0.12 was operating profit margin for every £1 of revenue over £0.12 was operating profit margin for every £1 of revenue over £0.12 was operating profit margin for every £1 of revenue over £0.12 was operating profit margin for every £1 of revenue over £0.12 was operating profit margin for every £1 of revenue over £0.12 was operating profit margin for every £1 of revenue over £0.12 was operating profit margin for every £1 of revenue over £0.12 was operating profit margin for every £1 of revenue over £1 of revenue ove

The profit year margin has also improved between 2013 and 2014, suggestion proportionally less financing charges and/or is more efficient at generating activities. For every £1 of revenue in 2014, £0.10 of profit was achieved from revenue and profits from non-trading activities included. In the prevenue £0.08 was the profit for the year. This was an improvement of £0.08.

It is difficult to comment overall on whether the profitability is satisfactory of the current position of the business are unknown. However, based solely on the directors do not have legitimate reasons to be concerned about the firm's profit indicates improvement. Its strategy of expanding in competitive markets app.

5. Explain how **one** method the business could use to improve its profitability.

See the theoretical overview for an explanation of the possible methods; resincrease prices. It is important that the method suggested clearly explains improve, but explains any drawbacks associated with it.

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Part D: Practice Activity -

Activity 21

Precision, an international jeans manufacturer, has been finding trading conditional Europe tough going. Sales have been falling within these markets; however, sales business has decided to take advantage of growing popularity in this region by operatores. The business believes that US and European consumers in general are concare choosing to reduce spending to some extent on non-necessity items.

1. Tick the relevant box to identify whether the financial item will have an effective

Financial item	Cash
Customer cash sales	
Suppliers' trade credit – invoice not paid	
Suppliers' trade credit – invoice paid	
Capital raised from share issue	
Rent payment	
Sale of a fixed asset	
Bank loan	

Financial data from selected company accounts 2014

	2014 (£'000)	
Revenue	3,244,431	
Gross profit	1,667,192	
Operating profit	176,694	
Profit for the year	150,189	
Gross profit margin	51.4%	
Operating profit margin		
Profit for the year margin	4.6%	

2.	Calculate the gross profit margin for 2013.
3.	Calculate the operating profit margin for 2014.
5.	calculate the operating profit margin for 2014.

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Calculate the profit for the year margin for 2013. Using the appropriate financial information, assess the extent to which the continue to be concerned about the financial performance of Precision. Precision has been a profitable business over the last two years of trading, problems, especially in 2014. Explain two reasons why a profitable business experience cash difficulties.

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Activity 22

Cineworld, a cinema group with theatre operations in the UK, Ireland and Central leader for a number of years. In 2013 it had a 25.5% share of the UK market¹⁸.

The business has embarked on a period of expansion over the last few years. This arthouse cinema chain, Picturehouse, in 2012 for £47.3 million, which would allow cultured target market¹⁹. During the early part of 2015 it opened four new cinema? Picturehouse. Six more new cinemas were planned for the latter part of 2015. Some refurbished to include the latest technology of new ones, which has included new 'Superscreens'²⁰.

Between 2013 and 2014 UK cinema attendance fell by 4.9% to 157.5 million in 20

For the financial year ending December 2013 the Cineworld group's gross profit reprofit margin 9.2% and profit for the year margin 5.2%. In the following financial y group was £619.4 million, gross profit £180.5 million, operating profit £76.0 million million²².

1.	Calculate the 2014 gross profit margin.
2.	Calculate the 2014 operating profit margin.
3.	Calculate the 2014 profit for the year margin.

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http://www.statista.com/statistics/264379/leading-theater-chains-in-the-uk-by-market-share/

http://www.theguardian.com/business/2012/dec/06/cineworld-buys-picturehouse

http://cineworld-plc.production.investis.com/~/media/Files/C/Cineworld-PLC/reports-and-presentations/ http://www.telegraph.co.uk/finance/newsbysector/retailandconsumer/leisure/11722574/Cineworld-hails

²¹ http://www.cinemauk.org.uk/the-industry/facts-and-figures/international-comparison/admissions/

http://cineworld-plc.production.investis.com/~/media/Files/C/Cineworld-PLC/reports-and-presentations/

Comment on the financial performance of Cineworld between 2013 and 20 Analyse **one** method Cineworld could use to improve profits and/or profitable

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SECTION 12: HUMAN RESOURCES

Part A: Specification Overview

Calculating and interpreting human resource data is part of the 3.6 Decision-making resource performance section and appears within subsection 3.6.2, Analysing human Students are required to calculate and interpret labour turnover and retention rate employee costs as a percentage of turnover and labour cost per unit.

Part B: Theoretical Overview

Motivated employees are more likely to give their best efforts and contribute posthe business. Calculating and interpreting human resource data allows the business resource policies it implements are effective at motivating staff, keeping staff retaining levels of productivity.

Labour turnover – this measures the frequency that staff leave a business and neturnover increases the recruitment and selection costs of a business, while producemployees take time to reach the required standard. A high labour turnover could employees being hired, as the recruitment and selection policy is ineffective, or stew promotional opportunities, poor wages, weak leadership, etc.

 $\frac{\text{number of staff leaving over a period}}{\text{average number of staff}} \times 100 = \%$

Retention rates – this shows the extent to which a business can hold onto its state employee loyalty it has and also how happy staff are to remain employed by it. He considered in light of other employment opportunities available outside the busine alternatives encourages employees to remain with the business rather than leave the business is more successful at holding onto staff.

number of employees at the end of a period -number of staff leaving du average number of staff during the period

Labour productivity – this measures the average output per employee. Productive level of output, which helps to keep unit costs low, as fixed costs are spread across allows for a higher profit margin or lower prices for customers, which in itself comproductivity is influenced by the quality of recruitment and selection, as approprise mployees should be hired, if it is effective. It is also influenced by employees recessary, in order to enhance their skills. Financial and non-financial methods us influence the motivation of employees and the efforts they give, along with the incan increase output.

output per period number of employees per period

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Labour costs as a percentage of revenue – this measures employee performance. A higher percentage can be an indication of inefficiency, as labour costs are a great a previous period, and, therefore, if all other factors remain the same, profit marginess will look to reduce the percentage, as a smaller percentage of labour cost allowing for higher profit margins, once again assuming all other factors remain to labour cost as a percentage of revenue percentage will depend on the industry no or previous performances, for example.

$$\frac{\text{labour costs per period}}{\text{revenue per period}} \times 100 = \%$$

Labour cost per unit – this measures the labour cost per unit of output. It covers as National Insurance and pension contributions. In theory, if the business increas unit should fall, as the business gains from economies of scale, e.g. bulk-buying opposition of proficient as they produce more. A lower labour cost per unit is preferable to the factors remain the same, as higher profit margins will be achieved due to costs belower labour cost per unit is advantageous to the business will depend on whether emain price-competitive, if they sell a price elastic product, and/or whether other

$$\frac{\text{labour costs per period}}{\text{output per period}} = f$$

Part C: Example

Rakhim Hairstyling Ltd, a Sheffield-based hairdressing salon, usually employs six sprovided to 720 customers, while in May it was 576. Several stylists have left overwages and lack of promotional opportunities available within the business. Further manager does not pay any attention to their opinions on how to improve the business, while in 2015 four left. However, staff numbers continued to remain cont

Due to lower demand the revenue decreased from £32,400 in April to £25,920 in the hours worked the wage bill fell from £9,580 (April) to £8,600 (May).

The owners are concerned about the impact the labour turnover is having on the beginning on the profits were lower than expected.

1. Calculate the labour turnover for Rakhim Hairstyling Ltd in 2014 and 20153.

$$2014 \qquad \frac{2 \times 100}{6} = 33.3\%$$

$$2015 \qquad \frac{4 \times 100}{6} = 66.6\%$$

2. Calculate the labour retention for Rakhim Hairstyling Ltd in 2014 and 2015.

$$2014 \qquad \frac{6-2}{6} \times 100 = \frac{4}{6} = 66.6\%$$

$$2015 \quad \frac{6-4}{6} \times 100 = \frac{2}{6} = 33.3\%$$

3. Calculate the labour productivity for Rakhim Hairstyling Ltd in April and May

April
$$\frac{720}{6}$$
 = 120 customer per employee

May
$$\frac{576}{6} = 96$$
 customers per employee

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4. Calculate the employee costs as a percentage of revenue for Rakhim Hairstyl

April
$$\frac{£9,580}{£32,400} \times 100 = 29.6\%$$

May
$$\frac{£8,600}{£25,920} \times 100 = 33.2\%$$

5. Calculate the labour cost per unit for Rakhim Hairstyling Ltd for April and Ma

April
$$\frac{£9,580}{720} = £13.31$$

May
$$\frac{£8,600}{576} = £14.93$$

6. Comment on whether the owners' concerns about the business are valid or not

The labour turnover of the business has doubled over the last two years. So more frequent basis. This will increase the recruitment and selection costs replacing staff increases. The higher costs could impact on the profits of the stylist not working to their full potential initially, as they will require time way in which the salon operates. This could initially result in a service not a number of customers possible.

In addition, the employees are less likely to remain with the business when and 2015. In 2014, the firm was able to retain 66.6% of staff, but by the to 33.3%, thus indicating that staff are disenchanted with their employmalternative opportunities elsewhere.

The labour turnover is possibly a contributory factor of the decline in labour decreased by 24 (120 – 96) customers per employee, as not only do new work to their optimum level, but existing staff morale may be low if they managed, thus affecting their efforts. Furthermore, the frequent change is clients choosing to switch to rival salons, if they believe the standard of sestaff are now employed at one of these. However, as the business is not prothe difference could be attributed to customers receiving a service which rehairstyling time than April.

Employee costs as a percentage of revenue indicate the business is not as a more of May's revenue in comparison to April equates to employee costs; are remained the same, the business would have a lower profit.

Furthermore, the labour cost per customer was £13.31 in April, but by Ma The business is not as efficient at providing the hairdressing service to each £1.62 (£14.93 – £13.31) more per customer in May.

Overall, the owners should be concerned as staff are leaving on a more free in its staff retention rate falling by half. In addition, its labour productivity costs related to providing the service are increasing on average. This has the reputation being damaged and profits declining.

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7. Analyse one method the owners could use to improve the labour turnover and business.

Possible methods:

- Increase wages an increase in wages may encourage employees to statheir best efforts, if they are motivated by money, in accordance with would reduce the recruitment and selection costs, thus helping to improve the business to provide a higher standard of customer care business to be differentiated in the market. However, not all employed this strategy may not have the desired effect on all of them.
- More promotional opportunities some employees may be encourages and give their best efforts, if they believe there is the possibility of promay not be possible to provide many promotional opportunities, there these become available elsewhere.
- Management training the manager appears to be using an autocrassive wish to make the decisions and do not encourage the contributions of employee morale low, if they believe their viewpoint is not recognised encourage the manager to review and adapt their style of management to encourage the participation of employees in some aspects of decisions their motivation. Training will only be effective, if the manager is will management accordingly.

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Part D: Practice Activity -

Activity 23

Brecia Bicycles Ltd produces folding bikes predominantly for the UK, USA and Asian known for the high quality handmade bikes produced.

Its performance measurement data is as follows:

	2013	
Output	6,000	
Average number of employees	30	
No. of staff leaving the firm	4	

In 2012 the business introduced a bonus payment scheme. Each employee receiver production targets with regards to output and quality.

The business prides itself on the training that is provided to new and existing emp

New employees are provided with comprehensive induction training, which aims their familiarity with most operational areas of the business regardless of whether not and increases their awareness of most employees. The training encourages the ideas they believe would improve the business.

Calculate the change in labour productivity in between 2013 and 2015

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Comment on the labour productivity of the business between 2013 and 201 Calculate the labour turnover for 2013 and 2015. Comment on the labour turnover of the business between 2013 and 2015.

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Calculate the labour retention for 2013 and 2015. Comment on the labour retention of the business between 2013 and 2015. Identify and explain two factors that could have contributed to the business and/or labour productivity.

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Activity 24

Furniture Delight manufactures high quality bedroom furniture that is aimed at his based in West Yorkshire and sells to high quality retailers across the UK and direction of its main rivals is Haynes Furniture Designs. Below are its employee performance to its rival:

	Furniture Delight	Ha
Output	476	
Average number of employees	14	
No. of staff leaving the firm	3	
Labour costs	£201,200	
Revenue	£750,000	

1.	Calculate the labour turnover for Furniture Delight and Haynes Furniture De	**
		•
		**
2.	Calculate the labour productivity for Furniture Delight and Haynes Furniture	
2.	Calculate the labour productivity for Furniture Delight and Haynes Furniture	0,
2.	Calculate the labour productivity for Furniture Delight and Haynes Furniture	
2.		
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Calculate the labour costs per unit for Furniture Delight and Haynes Furnitu Calculate the employee costs as a percentage of revenue for Furniture Delig Designs. Analyse the effectiveness of the workforce for each business.



SECTION 13: AS ASSESSMENT ACTIV

Guidance

The assessments that follow are presented in a similar format to the Business slightly adapted so there is a greater opportunity to practise some of the numer these units; therefore, the format used is not an exact replica of the AQA style opportunities would be provided.

The analytical- and evaluative-style questions require students to focus on busing angle, thus encouraging them to appreciate that a confident understanding of the find challenging, could assist in making that difference between the levels of respective.

Once students have completed each unit, along with the practice activities within deemed appropriate, they could be set the relevant assessment activity to complete the could be set the relevant assessment activity to complete the could be set the relevant assessment activity to comp

Business 1 is worth 80 marks and students have 1 hour and 30 minutes to compare spend one minute on each mark. If a question is worth six marks, they should answering it. Section C has two data-response stimuli with questions; therefore, reading and analysing each of these, along with making appropriate notes at the should read them twice. The paper is worth 50% of the AS and is structured as follows:

- Section A 10 multiple-choice questions (MCQs) worth 10 marks
- Section B short-answer questions worth approximately 20 marks
- Section C two data-response stimuli with questions worth approximately

Business 2 is also worth 80 marks and students have 1 hour and 30 minutes to source material to answer the questions. As it is quite lengthy they should be advice reading and analysing it, along with making brief notes at the side of it. Ideally, the twice. Once the source material has been read and analysed the students should each question. The paper is worth 50% of the AS and is based on a compulsory case to eight questions.

On completion the assessment could be marked by the class teacher, peer-asse themselves using the mark scheme. The suggested answers are not definitive are be given suitable recognition.

Once the assessment has been marked students could use this to analyse their pwhich may benefit from further review.

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QA AS Business

L31/1

aper 1: Business 1

t have:



ack ballpoint pen.

the top of this paper with your name.

ns.

ns in the spaces provided.

'k for this paper is 80.

1 question are shown in brackets.

n carefully before you start to answer it.

e time.

y question.

's if you have time at the end.



Section	Mark
А	/ 10
В	/ 20
С	/50
Total	/80

SECTION A

Answer **ALL** the questions in this section.

Only one question per answer is allowed.

Tick one of the boxes to indicate your answer.

1.			s has a range of costs that are incurred in manufacturing its vehicles ble cost?
		A.	Production manager's salary
	_	В.	Engines
			Building insurance
			National TV advertising
2.			td is a national chain of pizza restaurants. The business recently an
	com	paris	on to the previous year. Which of the following has contributed to
		A.	A competitor closing 10% of its restaurants
		В.	The number of employees falling by 3%
			A new deal with a supplier resulting in an 8% saving on ingredient
		D.	Property (restaurants) rental costs increasing by 5%
3.	Mar	ket g	rowth is:
		A.	the total unit sales or income for a business or a product over a spe
		В.	the percentage change in income or unit sales for a business or production
		C.	a market's total unit sales or income over a specific period of time
		D.	the percentage change in a market's total unit sales or income over
4.	A re	searc	ch sample with a confidence level of 90% means:
		A.	the results of the sample will be right 9 times out of 20
		В.	the results of the sample will be right 9 times out of 25
		C.	the results of the sample will be right 18 times out of 20
		D.	the results of the sample will be right 18 times out of 25
5.	Whi	ch of	the following products would have price inelastic demand?
٠.		Α.	Luxury holiday to Barbados
		В.	Electricity
			Gap clothing
	_		Theme park entrance tickets
	_	υ.	Theme park entrance tickets
6 .	Sup	erma	rkets sell a range of products. Which out of the following would be
	base	ed on	its income elasticity of demand?
		A.	-0.4
		В.	+0.4
		C.	+0.95
		D.	+1.25
7.	Roc	co Lto	d manufactures training shoes. It had a favourable advertising varia
	mea		5
		A.	the business spent £10,000 more on advertising than it budgeted for
		В.	the business spent £10,000 on advertising in 2015
		C.	the business spent £10,000 less on advertising than it budgeted for
		D.	the business will spend £10,000 on advertising in the next financial
		•	, , , , , , , , , , , , , , , , , , , ,

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3.			ss's opening cash balance was £46,000 at the start of the year, but g factor is the most likely cause? Cash sales Good stock control Trade customers are given 30 days to settle invoices and suppliers Overtrading
Э.	first	fall i	016 Apple announced quarterly sales of \$50.56bn (£34.39bn), down sales for the company since 2003. ²³ Which of the following could sales?
		A.	Expand into new markets
		В.	Withdraw from markets
		C.	Decrease promotion
		D.	Decrease sales volumes
10.		000 la A. B.	ab, a collection and delivery kebab business, has a capacity of 60,00 ast year. Which of the following is the correct capacity utilisation of 48.4% 51.7% 55.0% 58.3%
			Question 10 is the last question in Section A

Section B starts on the next page.

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²³ http://www.bbc.co.uk/news/business-36146336

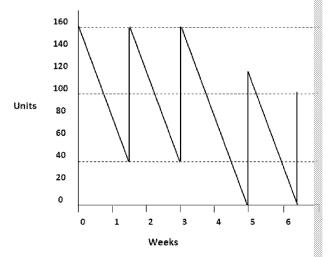
Section B

Answer all questions in the section.

- 11. A local business has the following quarterly data (three months):
 - selling price per unit = £23.50
 - variable cost per unit = £11.50
 - fixed costs = £42,000.00

	Calculate the firm's break-even point in units.	
12.	Explain one reason why a business engages in break-even analysis.	

13. Drovers Engineering Ltd supplies fire protection systems to the oil and gas in has dealt with a number of customer complaints regarding orders being delincorrect quantity. An inventory control chart has been produced to assist a complaints.



Use the inventory control chart on the previous page to explain why the bus problems meeting its business customer expectations regarding orders.

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14. Analyse one way Drovers Engineering Ltd might resolve its inventory control

Question 14 is the last question in Section B.

Section C starts on the next page.

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Moretti Ltd

Moretti Ltd, the manufacturer of the premium crisp brand 'Rocco', operates is market alongside established brands such as Kettle and Tyrrells. Since the brands enjoyed considerable success, which has also been mirrored in its North entered in 2014. Within the UK the brand has an income elasticity of demandary

The UK crisp market has changed in recent years with consumers becoming resulting in more choosing to purchase healthier snacks that are perceived less

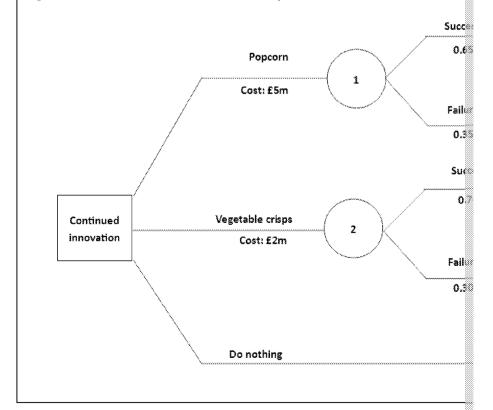
In 2015, the UK crisps market was valued at £923.2 million, which represent previous year.²⁴

UK sales of popcorn increased by 40% to £105m in 2014 with the establish benefiting, as its revenue increased by 20% to £35.1m in 2014. The growth encouraged premium popcorn brands to enter, including Metcalfe's Skinny Poshcorn.²⁵

In 2013, the vegetable crisp market was valued at £40m with continued gra

Moretti Ltd feels it will continue to enjoy high levels of success within the UK at trends. However, it continues to investigate new opportunities in the UK and accordance with its innovative culture. It has investigated launching its own premium vegetable crisps range both under the Rocco brand name.

Figure 1: Moretti Ltd's decision tree for new products



 $^{^{24}\} http://www.telegraph.co.uk/finance/newsbysector/retailand consumer/11581694/Soaring-snack-sales-spell with the constant of the consta$

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²⁵ http://www.telegraph.co.uk/finance/newsbysector/retailandconsumer/11809259/Popcorn-explosion-drives

²⁶ http://www.lincolnshirelife.co.uk/posts/view/crisps-for-the-connoisseur

Using figure 1 only, advise Moretti Ltd on whether it should launch a p vegetable crisps range. **COPYRIGHT PROTECTED** Extra space

To what extent should Moretti Ltd focus on launching a new product in in the UK crisp market? **COPYRIGHT PROTECTED**

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Collymore Hotels Ltd

Collymore Hotels Ltd is a relatively new small budget hotel chain with five horngland. Most are located in coastal regions with good transportation links, appeal to domestic and international tourists, as well as business travellers.

Figure 1: Collymore Hotels Ltd income statement extract

	2015 (£m)	
Revenue	4.2	
Profit for the year	1.1	
Profit for the year margin		

Collymore Hotel Ltd runs an employee profit-sharing scheme for those who be employed with the business for at least one year. Staff are encouraged to simprovement. Any implemented ideas result in the employee making the prosphare of any savings generated by it. If more than one employee makes the share of any savings is distributed equally between all those involved in its business has an employee of the month award in each hotel with the winning £250 bonus.

The business allocates at least £1,500 per employee to the training budget budget was £135,000. This is used for both internal and external courses, as who are studying for professional qualifications related to the hospitality in $\frac{1}{2}$

Collymore Hotel Ltd's owner, Isabella Hudson, feels that the positive relations contributed to the business having a higher capacity utilisation than the industrial peak season it is 92% and at other times at least 85%.

Figure 2: Collymore Hotels Ltd human resources data extract

	2015	
Average number of staff	90	
No. of staff leaving the firm	2	
Retention rate	97.8%	

Collymore Hotels Ltd usually ranks highly in customer feedback surveys and award for customer service. Although it is a relatively small hotel chain the reaspirations to double its size within five years. Budget brands are expected hotel developments until 2018.²⁷

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²⁷ http://www.bighospitality.co.uk/Trends-Reports/Budget-brands-to-dominate-UK-hotel-development-over-t

Using both figure 1 and figure 2, comment on the profitability and emp Collymore Hotels Ltd. **COPYRIGHT PROTECTED** Extra space

To what extent has Collymore Hotel Ltd's employees been the main factor **COPYRIGHT PROTECTED**

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END OF QUESTIONS





AQA AS Business 7131/2

Paper 2: Business 2

Insert to 7131/2

Source 1: Puddle Down Farm

Puddle Down Farm is located in East Anglia and owned by the Braithwaite family a dairy farm with 350 cows.

In 1984, a milk quota was introduced by the European Parliament, which limited market (sell) in a year. If the maximum level was exceeded a charge would be incorder to ensure its survival in the 1980s, and so that excess milk above the quota drains', the business expanded into ice cream production.

The family spotted a business opportunity while holidaying in the North West. The similar position to themselves had expanded into the real dairy ice cream market returned to East Anglia and carried out market research to identify whether it was The results indicated that there was a gap in the market for a similar business veri

In 1985, one of the farm buildings was converted for ice cream production. It includings to the farm could see the cows being milked and ice cream manufactured not only using the milk from its organically reared cows, but also sourcing local, possible. It believes that these factors, along with its high quality standards, allowhigh level.

Initially farm visitors had the opportunity to buy three different flavours of ice cresounding success with the farm broadening its product range to 18 different flato farm visitors, but also regional restaurants, pubs, hotels and retailers. The bus North West region.

Each litre of ice cream is sold for £3.25 with production costs for each litre at £0.0 £0.26 ingredients and £0.14 packaging. The business has monthly fixed costs of £ capacity of 2,500 litres a month and sells at least 2,000 litres.

The family became concerned during the recent downturn in the economy that so look to reduce spending. To assist in the management of the business a budget wand profit. Last month's budgeting statement is below.

Income budget	Expenditure budget	
	Budget	
Ice cream sales	£6,300	Labour
Café sales	£1,350	Stock
Bed and breakfast sales	£1,500	Other costs
Total income	£9,150	Total expenditure

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Timothy, the Braithwaite's oldest son, believes that it is a good time to expand the out some research and believes that an ice cream parlour should be added to the used for children's parties. This would involve some construction work, as one converting for this purpose.

Part of his research found UK manufacturers' sales of ice cream, lollipops and other increased since 2011. In 2014, sales were £722.8m, an increase of £88.6m since 2011 increase of 14.0% and 27.8% respectively.²⁸

Timothy has put forward a business plan to his parents, which includes the followinto consideration all areas of the business.

	Quarter 1	
Cash inflows		
Ice cream sales	£18,000	
Café sales	£3,800	
Bed and breakfast sales	£4,300	
Ice cream party sales	£1,600	
Total cash inflows	£27,700	
Cash outflows		
Construction work*	£35,500	
Stock	£3,400	
Labour	£13,500	
Product storage	£420	
Utilities	£830	
Administration and maintenance	£900	
Total cash outflows	£54,550	
Opening balance	£24,500	
Net cash flow	-£26,850	
Closing balance	-£2,350	

Timothy believes that the ice cream could be sold at £4.25 per litre rather than £3 brand, and this could help with meeting some of the construction costs, along w to 1,000 litres a month. He has worked out the price elasticity of demand as -0.1

In addition, the business has been approached by a national supermarket buyer branches to be supplied with 4,000 litres of ice cream a month. Assuming all goes supermarket will sell the brand in all its UK supermarkets. They will pay the business to be supplied with 4,000 litres of ice cream a month.

If the supermarket order was accepted the business would need to increase capas short term. If the ice cream was launched nationally by the supermarket, the business production away from the farm to a bigger production unit or outsource some of manufacturer, otherwise it would not be able to meet demand. Timothy and his give careful consideration to the options available.

*Note: The construction costs in the cash flow forecast relate to either opening at the capacity of the business.

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QA AS Business

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Question	Mark
1	/5
2	/3
3	/9
4	/ 4
5	/9
6	/ 16
7	/ 16
8	/ 18
Total	/80

Answer all questions

Read the case study in the insert booklet and then answer to Calculate the current break-even quantity of Puddle Down Farm's ice cream Calculate the budgeted profit for Puddle Down Farm. Analyse the benefits to Puddle Down Farm of producing a monthly budget.

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Extra space The price elasticity of demand for the Puddle Down Farm's ice cream has be value of -0.1. Explain what this value means. Analyse the expected cash flow position of Puddle Down Farm for both qua

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Extra space To what extent could operating at full capacity be a problem for Puddle Dov the supermarket order?

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COPYRIGHT PROTECTED Extra space

Assuming Puddle Down Farm accepted the supermarket order, to what extern beneficial to the business?

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Extra space Advise Timothy and his parents on whether they should increase the production **COPYRIGHT** parlour for children's parties or whether they should accept the supermarket **PROTECTED**

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SECTION 14: SUGGESTED ANSWERS TO PRACT

Section 1: The measurement and importance of profit

Activity 1

1. $\frac{£1,450}{20}$ =£0.73 (jewellery kit cost) – 1 mark

 $2 \times £0.75 = £1.50$ (labour cost) -1 mark

£0.73 + £1.50 + £0.50 (tissue paper) + £0.15 (Swarvoski like crystal) =£2.88 - 1 mar

£6.99 - £2.38 = £4.11 added value - 1 mark

Total of 4 marks available

2. Possible responses:

- The unique design makes the product stand out from others in the market placeharge a higher price than similar businesses, whose products are not considered.
- A consumer does not necessarily have the time to create their own beaded jew convenient for them to buy the product already created than produce it them.
- The presentation of the jewellery in a box with soft tissue paper could create a consumers paying above the unit cost to acquire the product.

1–2 marks limited knowledge

3–4 marks reasonable knowledge or reasonable application

5–6 marks good application

Total of 6 marks available

Activity 2

1. \$115.00 + \$24.75 + \$15.00 + \$14.00 + \$5.00 + \$11.00 + \$80.25 + \$5.00 = \$270.00 m

2 marks if correct or 1 mark with one error

 $\frac{20 \times \$270.00}{100}$ = \$54.00 – 2 marks if correct or 1 mark with one error

\$54.00 + \$270.00 = \$324.00 - 1 mark

\$499.00 - \$324.00 = \$175.00 added value -1 mark to pay above the unit cost to access the product.

Total of 6 marks are available

2. Possible answers:

Apple has added value to the iPad Air 2 as follows:

- The design and functionality of the computer tablet differentiates it from other
 resulting in consumers being willing to pay above the market average, as the pr
 and revolutionary. Consumers are willing to pay above the unit cost to acquire
 the brand;
- The consumer can request a personal laser engraving on the iPad Air 2 for free compared to that of rivals in the marketplace;
- The regular software updates encourage the consumer to believe the high addenate a product which remains up to date for a long period of time; and
- The product is perceived to be at a higher quality standard than similar product to the strength of the Apple brand. This helps the product to stand out in the unique and the best.

See Activity 1 Q2 answer for guidance on allocating marks

Total of 6 marks are available

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Section 2: Understanding management decision-making – decision trees

Activity 3

1. Surrey:

 $(£18.0m \times 0.7) + (£6.0m \times 0.3)$

£12.6m + £1.8m = £14.4m expected value

£14.4m - £2.5m = £11.9m net gain

The option of opening a Surrey operation has an anticipated net gain of £11.9m.

China:

 $(£22.0m \times 0.6) + (£8.0m \times 0.4)$

£13.2m + £3.2m = £16.4m expected value

£16.4m - £5.5m = £10.9m net gain

The option of opening a Chinese operation has an anticipated net gain of £10.9m.

See Activity 3 Q1 answer for guidance on allocating marks

Total of 8 marks are available

2. Based purely on the decision tree, the business should open a Surrey operation (1 r than China (1 mark) at £1.0m more (1 mark).

Total of 3 marks available

- 3. Possible answers:
 - business objectives
 - mission statement
 - business ethics
 - key stakeholders' viewpoints
 - availability of the required resources, including employees with the right skills
 - expertise of the management team that will lead whichever option is taken
 - impact on employees
 - impact on the business's brand
 - expected economic climate in the Asia-Pacific market, e.g. level of economic g
 - stability of the political environment, e.g. is there likely to be a change in gove implications for the business?
 - source of the estimates and when they were gathered
 - which option allows the business to operate at the expected standard in term
 - protectionist measures within the Asia-Pacific market, and the extent to which
 the market

Each qualitative factor:

1 mark identifying a factor;

1 mark some development of the qualitative factor; **or**

2 marks good development of the qualitative factor in relation to the busine

Total of **6 marks** available

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Activity 4

1. Norway:

$$(£35.0m \times 0.75) + (£20.0m \times 0.25)$$

£26.25 + £5.0m = £31.25m expected value

£31.25m - £10.0m = £21.25m net gain

The option of launching the electric cars in Norway results in an anticipated net gain

China:

 $(£65.0m \times 0.55) + (£30.0m \times 0.45)$

£35.75 + £13.5 = £49.25 expected value

£49.25m - £22.0m = £27.25m net gain

The option of increasing capacity in China results in an anticipated net gain of £27.3

For each net gain:

1 mark correct formula1 mark correct numbers

1 mark correct answer for expected value1 mark correct answer for net gain

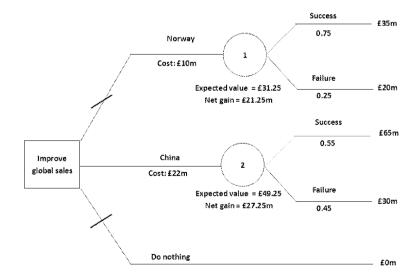
Total of 8 marks available

2. Based purely on the decision tree, the business should increase capacity in China (1 gain than Norway (1 mark) at £6.0m more (1 mark).

Total of 3 marks available

3. **1 mark each** for placing a strike sign through the 'Norway' and 'Do nothing' options

Total of 2 marks available



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- options are clearly and soundly set out
- encourages research, thereby enhancing the quality of the information used an its use.
- careful consideration is given to the options available, rather than being focus
- the risks of each option are carefully considered; therefore, an informed choic
- clearly shows the financial implications of each option and the level of risk ass
 China provides a higher net gain the business might decide to go for Norway,
- during its construction it might flag up options the business had not initially construction.
- it encourages management to think through each option carefully
- show the opportunity cost of a decision in financial terms

0–3 marks limited understanding with little focus on the requirements of the que

4–6 marks reasonable understanding with some focus on the question 7–9 marks good understanding with good focus on the question

7-3 marks good understanding with good jocas on the que

Total of **9 mark**s available

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Section 3: Value of primary and secondary market research (market size growth, and market share)

Activity 5

1. 307,569.9 + 191,425.8 + 68,080.7 + 81,415.8 + 56,529.3 + 539,691. 3 = **1,244,739.8**

1 mark identifying the correct formula and data

1 mark correct answer

Total of 2 marks available

2. 320,219.7 + 225,850.6 + 104,094.7 + 72,748.2 + 65,618.6 + 625,368.5 = 1,423,900.3

See Activity 5 Q1 answer for guidance on allocating marks

Total of 2 marks available

3. 1,423,900.3 - 1,244,739.8 = 179,160.5 1 mark

$$\frac{179,160.5}{1,244,739.8}$$
 × 100 = 14.4% – 1 mark – correct formula and data

The mobile phone market grew by 14.4% between 2015 and 2014.

1 mark correct answer

1 mark identifying the market had grown rather than decreased

Total of 4 marks available

4. Apple:

$$\frac{191,425.8}{1,244.739.8} \times 100 = 15.5\%$$

Apple's market share in 2014 was 15.4%.

Samsung:

$$\frac{320,219.7}{1,423,900.3} \times 100 = 22.5\%$$

Samsung's market share in 2015 was 22.4%.

Marks are awarded based on the following:

1 mark correct formula 1 mark correct numbers 1 mark correct answer

Total of 3 marks available

5. Apple:

$$225,850.6 - 191,425.8 = 34,424.8$$

$$\frac{34,424.8}{191,425.8} \times 100 =$$
18.0% increase in sales growth

Samsung:

$$320,219.7 - 307,596.9 = 12,622.8$$

$$\frac{12,622.8}{307,596.9} \times 100 =$$
4.1% increase in sales growth

Marks for the above are based on the following with 3 marks available for each

1 mark correct formula 1 mark correct data 1 mark correct answer

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Apple has had a higher rate of sales growth than Samsung, as Apple's increased 13. Samsung's.

1 mark identifying an increase

1 mark identifying the amount of increase

Total of 8 marks available

6. All mobile phone businesses excluding Samsung and Lenovo have experienced a ground 2015, including Apple, thus indicating the market has become more competitive by 0.5% (15.9% – 15.4%), while Samsung's market share decreased by 2.2% (22.5% Apple's sales growth was 13.9% more than Samsung's 4.1%% at 18.0%.

As the mobile phone market has become more competitive Apple appears to be more increased competition in the market than Samsung, as it managed to increase its managed to increase its managed so increase its managed to inc

or

Apple had an improved market share between 2015 and 2014 by 0.5% and had a sale Samsung, and this would suggest the American business is the most successful. How Samsung is more successful, because in 2015 it sold 94,369.1 thousand (320,219.7 and its market share was 6.6% (22.5% – 15.9%) higher.

1 mark judgement presented

2 marks judgement presented and substantiated

3–4 marks judgement presented and substantiated with evidence

Total of 4 marks available

Activity 6

14,520 x £1.07 = £15,536 (£15,536.4) million

1 mark correct formula 1 mark correct data 1 mark correct answer

Total of 3 marks available

2. The UK soft drinks market's size was 14,520 million litres in 2013, which represented previous year, 2012.

14,520 million litres represent 102.0% (100% + 2.0%) of the 2012 market size based

 $\frac{14,520}{102.0} \times 100$ = **14,235** (**14,235.2**)million litres -**2012** market size based on volume

1 mark formula nearly correct **or**

2 marks correct formula
1 mark most data correct or
2 marks all data correct

1 mark correct answer based on the data used

Total of 5 marks available

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3. The UK soft drinks market was valued at £15,536 million in 2013 (answer from Activincrease of 4.1% on the previous year, 2012.

£15,536 million represents 104.1% (100% + 4.1%) of the 2012 market size based on

$$\frac{15,536}{104.1}$$
 × 100 = £14,924 (14,924.1)million $-$ 2012 market size based on value

See Activity 6 Q2 answer for guidance on allocating marks

Total of **5 marks** available

4. The UK soft drinks market is 14,520 million litres in size. The calculation from Q1 is used to the calculation from Q1

The carbonated drinks market has a 45% market share of the UK soft drink market.

$$\frac{14,520 \times 45}{100}$$
 = 6,534 million litres in 2013

See Activity 6 Q1 answer for guidance on allocating marks

Total of **3 marks** available

5. 2,360 - 2,135 = 225 1 mark - correct formula and answer

$$\frac{225}{2,135}$$
 × 100 = 10.5% 1 mark – correct formula and data, 1 mark correct answer

The bottled water market grew by 10.5% between 2012 and 2013.

1 mark identifying the market had grown

Total of 4 marks available

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Section 4: Marketing data

Activity 7

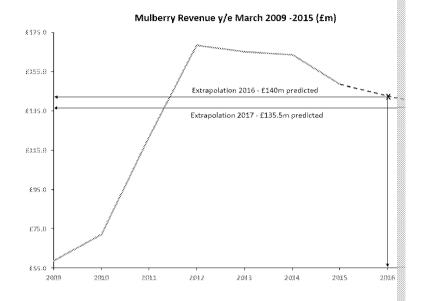
1. The fact that Mulberry experienced significant increases in revenue when the disposition increased significantly suggests a **positive correlation** between the two variables. As segment increases, so will the sale of Mulberry products. However, when disposable

1 mark states the type of correlation 1–2 marks explains the type of correlation; or

3–4 marks explains the type of correlation in relation to the scenario

Total of **5 mark**s available

2.



1 mark each extrapolation through to 2016 and 2017

1 mark each identifying on the chart the prediction for 2016 and 2017; or

1 mark each 2015: £140m and 2017: £135.5m

Total of **6 mark**s available

3. Possible answers:

Mulberry is unlikely to be happy with the predictions:

- it indicates that sales will continue to decline in both 2016 and 2017
- assuming all other factors remain the same this represents also a fall in profits
- potentially, this could result in a fall in market share, if its competitors are able
- as a high-profile brand any fall in sales could result in loyal customers being logardus to their lives

However, Mulberry may not be dissatisfied if:

- its competitors are expected to experience a similar decline
- the predictions still allow sales targets to be achieved
- the business is looking beyond 2017 and expects higher sales beyond this
- new product launches or entering new markets, for example, are likely to result

The extent to which Mulberry may or may not be dissatisfied will depend on its bus objectives fit in with these or not.

1–3 marks limited response with little focus on the question
 4–6 marks reasonable response with some focus on the question
 7–9 marks a good response with good focus on the question

Total of **9 mark**s available

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Activity 8

1. On the whole it appears there is a **negative correlation** between the UK unemployr Fiesta new registrations within the UK. This indicates that as the unemployment rate demand for this vehicle. Consumers who are no longer unemployed possibly are most expensive item, as their disposable income is significantly improved by gaining employment rate rises fewer new cars are registered, thus indicating lower demandating a fall in disposable income if now unemployed.

See Activity 7 Q1 answer for guidance on allocating marks

Total of 5 marks available

2. Possible answers:

- as the unemployment rate increases Ford can expect that demand for the Fiest will result in lower revenue and profits, assuming all other factors remain the
- due to lower demand the business will look to downsize on a temporary basis possible, while with higher demand the opposite occurs
- its market share potentially may remain unchanged if rival businesses within the negative correlation to Ford
- the business might look at other ways to encourage demand, such as making the market via car financing deals and leasing. This approach may be adopted even as a means to access new markets. However, someone who is unemployed missian expense while uncertainty remains regarding employment.
- the implications to the business overall will depend on many factors, such as was affected the same way with changes in the unemployment rate. If so, any incresult in a fall in revenue across all areas of the UK business. However, sales in a be able to compensate for any such fall.

See Activity 7 Q3 answer for guidance on allocating marks

Total of 9 marks available

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Section 5: Price elasticity and income elasticity of demand

Activity 9 (Price Elasticity of Demand)

- 1. a) The MOT car test's demand is **price inelastic**, as this is a requirement by law for A change in MOT test prices is likely to result in a smaller percentage change in requirement. It is a necessity for car owners.
 - b) The 42" Curved Smart HD television's demand is **price elastic**, as this product is likely to result in a greater percentage change in demand, as the product is not
 - c) A pint of milk's demand is price **inelastic**, as it is a necessity product that is essential A change in price will result in a smaller percentage change in demand.
 - d) Coca-Cola's price elasticity of demand could be considered to be **price inelasti**its strong brand image some will have a high level of brand loyalty to the produif the price increases. A change in price will result in a smaller percentage change

1 mark stating whether the product is price elastic or price inelas Up to 2 marks full explanation for why the product is price elastic or price

Total of 12 marks available (3 marks available on each)

2. a)
$$138 - 120 = 18$$

$$\frac{18 \times 100}{120} = 15\%$$

Price increased by 15%.

$$\frac{-14 \times 100}{140} = -10\%$$

Demand fell by 10%.

$$\frac{-10}{15}$$
 = -0.67 PED

Up to 2 marks correct formula and answer for percentage change in der correct formula and answer for percentage change in price correct formula and answer for PED

Total of 6 marks available

b) The demand for the route from Luton to London is price inelastic as the coefficient particularly responsive to a change in price. An increase in the selling price lead demand. At the lower price revenue would be £16,800 (140 passengers × £120) increases to £17,388 (126 × £138). The business would be advised to increase revenue.

See Activity 1 Q2 answer for guidance on allocating marks

Total of 6 marks available

c) An increase in price should lead to a fall in demand, in theory, and this should business may have expected lower revenue due to the price increase; however numbers to lead to this.

1–2 marks limited understanding demonstrated3–4 marks full understanding demonstrated

Total of **4 marks** available

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- Differentiation the marketing mix implemented by the business could allow unique. This would allow it to be more price inelastic, as loyal customers' unresponsive to price changes. This could be achieved by a high level of extras for free during the flight, etc.
- Substitutes the availability of other airlines providing the London to Vere elasticity of demand. If consumers perceive these as legitimate alternative more price elastic. The business does not have direct influence over these it markets its own service over these could allow it to stand out and be conclude.
- Customer knowledge the more aware the market is of Fly Away the greato it. An effective promotional campaign will ensure brand awareness, all existing consumers that this is the better service than others available in

The ability to influence the price elasticity of demand could depend on the numeric market, along with the extent to which the brand is differentiated. No or few almost consumers remaining with Fly Away, if the London to Verona route, is of even if ticket prices increase. The extent to which the Fly Away brand is developed the market, could allow it to stand out from others and still be considered as the rise.

0–3 marks limited response with little focus on the demands of the question reasonable response that focuses on some of the demands of the good response overall that focuses on many of the demands of the good response overall that focuses on many of the demands of the good response overall that focuses on many of the demands of the good response overall that focuses on many of the demands of the question reasonable response with little focus on the demands of the question reasonable response with little focus on the demands of the question reasonable response with little focus on the demands of the question reasonable response with little focus on the demands of the question reasonable response that focuses on some of the demands of the question reasonable response with little focus on the demands of the question reasonable response with little focus on the demands of the demands of the question reasonable response with little focus on the demands of the question reasonable response with little focus on the demands of the question reasonable response with little focus on the demands of the question reasonable response with little focus on the demands of the question reasonable response with little focus on the demands of the question reasonable response with little focus on the question reasonable response with little focu

Total of 10 marks available

- 3. a) If price is increased by 10%:
 - demand will decrease by 0.8 x 10% i.e. 8%
 - demand will decrease by 4 (50 x 8%) to 46 (50 46) cupcakes
 - revenue at the lower selling price is £75.00 (£1.50 \times 50)
 - revenue at the higher selling price will be £75.90 (£1.65 x 46)
 - revenue is **£0.90 more** (£75.90 £75.00) at the higher price

The increase in selling price to £1.65 will result in the revenue increasing by £0

Total of 6 marks available

b) The cupcakes' price elasticity of demand is less than 1, therefore the demand demand is not particularly responsive to a change in price. Although demand this is still a smaller percentage decrease than the percentage increase in price increase the selling price of cupcakes, as this will result in revenue increasing by

See Activity 1 Q2 answer for guidance on allocating marks

Total of 6 marks available

- c) Possible answers:
 - Price elasticity of demand allows a business to understand the impact on changed. This allows it to decide on the best pricing strategy to impleme increased. If the product is price elastic the business is more likely to red if it is price inelastic, price will be increased.
 - Price elasticity of demand will also influence the marketing strategy used demand is price elastic the business will use the marketing mix to develop becomes more price inelastic and demand less responsive to price change

0–1 mark identifies the benefit;

2 marks identifies the benefit with a limited explanation; **or** 3 marks identifies the benefit and provides a full explanation.

Total of 3 marks available

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Activity 10 (Income Elasticity of Demand)

1. a) 24,200 - 22,000 = 2,200

$$\frac{2,200\times100}{22,000}=1.0\%$$

Incomes increased by 10%.

$$600 - 800 = -200$$

$$\frac{-200 \times 100}{800} = -25\%$$

Demand fell by 25%.

$$\frac{-25}{10}$$
 = -2.5 YED

The training shoes' income elasticity of demand is - 2.5.

Up to 2 marks correct formula and answer for percentage change in der correct formula and answer for percentage change in incomparing the correct formula and answer for percentage change in incomparing the correct formula and answer for percentage change in incomparing the correct formula and answer for percentage change in derivative to the correct formula and answer for percentage change in derivative to the correct formula and answer for percentage change in derivative to the correct formula and answer for percentage change in derivative to the correct formula and answer for percentage change in derivative to the correct formula and answer for percentage change in derivative to the correct formula and answer for percentage change in derivative to the correct formula and answer for percentage change in incomparing the correct formula and answer for percentage change in incomparing the correct formula and answer for percentage change in incomparing the correct formula and answer for percentage change in incomparing the correct formula and answer for percentage change in incomparing the correct formula and answer for percentage change in incomparing the correct formula and answer for percentage change in incomparing the correct formula and answer for percentage change in the correct formula and answer for percentage change in the correct formula and answer for percentage change in the correct formula and answer for percentage change in the correct formula and answer for percentage change in the correct formula and answer for percentage change in the correct formula and answer for percentage change in the correct formula and answer for percentage change in the correct formula and answer for percentage change in the correct formula and answer for percentage change in the correct formula and answer for percentage change in the correct formula and answer for percentage change in the correct formula and answer for percentage change in the correct formula and answer for percentage change in the correct formula and an

Up to 2 marks correct formula and answer for YED

Total of **6 marks** available

b) The training shoes are an inferior good as it has a negative income elasticity of

1 mark stating the product is an inferior good
1 mark explanation of why it is an inferior good

Total of 2 marks available

- c) Possible answers:
 - The income elasticity of demand coefficient is based on past data and machines. A forecast in income levels within the economy could result in the production levels to meet the expected increase in the product's demand normal good. However, in the future it might become an inferior good, the being applied, as staffing numbers and productions should have been red
 - The income elasticity coefficient could result in the business focusing most external factors, which could influence success. This is one factor it could but it should not ignore other valid information sources, such as economic analysis.

See Activity 9 Q3 c) answer for guidance on allocating marks

Total of 3 marks available

- d) Possible answers:
 - As an inferior good customers will switch to alternative training shoes as would result in falling demand for this product and lower revenue, as contraining shoes.
 - As income levels decrease demand for the product will increase resulting
 - The business may choose to develop a broader product range, so risk is reproduct.
 - The business may choose to change the marketing mix of the product, so image, resulting in consumers choosing to continue purchasing the product.

0–3 marks limited response with little focus on the demands of the quest
 4–6 marks reasonable response that focuses on some of the demands of
 7–9 marks good response overall that focuses on many of the demands

Total of 9 marks available

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Section 6: Operational data

Activity 11

1. Capacity utilisation $\frac{20 \times 100}{35} = 57.1\%$ during low season

See Activity 4 Q1 answer for guidance on allocating marks

Total of 3 marks available

2. Capacity utilisation $\frac{32 \times 100}{35} = 91.4\%$ during high season

See Activity 4 Q1 answer for guidance on allocating marks

Total of 3 marks available

3. Low season $\frac{£400}{20}$ = £20.00 unit cost (20 customer occupancy level)

High season $\frac{£460}{32}$ = £14.38 unit cost (32 customer occupancy level)

£14.38 - £20.00 = £5.62 lower unit cost during high season

1 mark each correct unit cost formula for each year
 1 mark each correct unit cost data for each year
 1 mark each correct unit cost answer for each year

1 mark correct formula/data for calculating the difference

1 mark correct difference answer

Total of 8 marks available

4. Possible answer:

The main problem faced by the business is the fixed costs associated with the permetheir skills are probably fully utilised during high season, this is unlikely in low season employee has insufficient work to keep them busy with the danger that they become not to their full potential. This could damage the reputation of Brenda's B&B.

Brenda should look to hire staff on a fixed-term contract basis during the high seasor demand to justify an additional member of staff on a longer term basis. During low shired as and when needed, thus being paid only when their services are required. To the employee may not have any loyalty to the business and may leave as soon as a allowing an appropriate response to changes in demand during low season. Further full potential immediately, as they need time to get used to the way in which the business.

See Activity 1 Q2 answer for guidance on allocating marks

Total of 6 marks available

Activity 12

1. Unit cost $\frac{£575}{25}$ = £23 at 25 customers

Capacity utilisation $\frac{25 \times 100}{49}$ = 51.0% at 25 customers

See Activity 3 Q4 answer for guidance on allocating marks

Total of 6 marks available

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2. Unit $cost \frac{£800}{40} = £20$ at 40 customers

Capacity utilisation $\frac{40 \times 100}{49} = 81.6\%$ at 40 customers

See Activity 6 Q1 answer for guidance on allocating marks

Total of 6 marks available

- 3. Possible answers:
 - A higher capacity utilisation results in the business having a lower unit cost. If a nightclub service the unit costs will be £3 higher (£23) than if 40 customers us a higher profit margin with a higher level of capacity utilisation.
 - A higher capacity utilisation may not be advantageous if it does not provide adbreaks or coaches to be serviced. The well-being of customers could be threat accident, which damages the reputation of the business beyond repair.

See Activity 1 Q2 answer for guidance on allocating marks

Total of 6 marks available

- Possible answers:
 - The coach firm could use a promotional offer to encourage increased usage of a may be in the form of advertising, offering a discount for new customers or run ones. This may encourage more customers, as greater awareness could be create offer better value. The drawback is that the number of customers gained massociated with the promotional strategies.
 - The coach firm could reduce the price of the service which could encourage months in the profit margin being lowered to such an extent that it does not make the worthwhile.
 - The coach firm could provide a drinks service and play dance music during the
 customers feel that the nightclub experience commences as soon as they get
 increased usage or new customers, but this could add to the costs of the service
 required to provide this new element of the product. The profit margin on the
 may not be sufficient to cover the cost of an additional employee.

See Activity 1 Q2 answer for guidance on allocating marks

Total of 6 marks available

- 5. Possible answers include:
 - The service could be subcontracted to another coach firm with Universal Trave profits that would be earned. This would allow it to focus on its existing service respond to the demand for a new one. However, Universal Travel's reputation firm provides a lower standard of service, which could lead to a loss of custom
 - Employees could be asked to work longer hours, but overtime payments could profit margin.
 - The firm could hire a coach from another business and use one of its existing enadditional costs associated with this may make the provision financially not we
 - If the business has some staff hired on a flexible basis, their working hours can the business does not have employees employed such a basis this option is no

See Activity 1 Q2 answer for guidance on allocating marks

Total of **6 marks** available

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Section 7: Inventory control

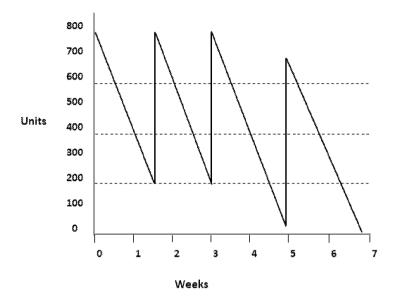
Activity 13

- 1. 200 units 1 mark available
- 2. 600 units 1 mark available
- 3. 400 units 1 mark available
- 4. 3.5 days (the order is placed in week 1 and is received midway between week 1 and

1 mark for the correct answer and 1 mark for reasoning/calculation

Total of 2 marks available

5. Discuss whether the inventory control of the business has been effective.



Possible points of discussion:

- Weeks 0 to 3 the inventory control appears to have been effective, as the busine customers' orders. It has not fallen below the minimum stock level during this
- Partway through week 4 leading to 5 the business might have been concerned to meet its customers' orders. This might be due to an unexpected rise in demander
- By week 7 the business would have been extremely concerned, as it experiences stock available to meet its customers' orders. This could have harmed its repulsement them unreliable and sought a new supplier. This could have resulted in demand, revenue and subsequently profits.
- The fact that the business started to use its buffer stock partway through week
 making the next order might not have taken this into account, as the business
 appears they ordered the usual quantity of stock rather than a higher amount
 stock being used, as when the stock arrived it was not restored to its 800 units
 approximately 700 units. The business appears to have ordered 100 units fewer
- Overall, the business should consider its inventory control effective for most of surges in unexpected demand it is not as effective as it should be. Stock should maximum level and not below this when received.

0–4 marks 5–8 marks 9–12 marks 13–16 marks limited response with little focus on the demands of the question reasonable response that focuses on some of the demands of the good response overall that focuses on many of the demands of the excellent response that is fully focused on the key demands of the

Total of **16 marks** available

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Activity 14

- 1. 1.200 units 1 mark available
- 2. 800 units 1 mark available
- 3. 400 units 1 mark available
- 1 week. For example, stock was reordered at the start of week 1 and arrived at the week.

1 mark for the correct answer and 1 mark for reasoning/calculation Total of 2 marks available

- 5. Points for discussion include:
 - Between weeks 0 to 2 the lead time for an order was one week. The business the stock arrived at the start of week 2 the stock level had reached the minimum 1,200 units once the delivery was taken into account.
 - The reorder in week 3, which arrived at the start of week 4, appears to have bethan normal. When it arrived the stock level was at the minimum level of 400 1.800 units.
 - In week 5 another order was placed and once again this appeared to be for 140 increased from 600 units to 2,000 units.
 - Part of the difficulties experienced by the business is that it seems to be order.
 This might be because it expected a higher level of demand, but this appears resubsequent orders should have been for a much smaller amount to restore it to hold, which is 1,200 units. By week 6 it is 800 units above this.
 - The business has had to pay for this stock, but would not have generated any
 holding. This would have increased its costs, but not resulted in any increase in
 have decreased assuming all other factors remain the same.
 - As the business has money tied up in stock it is not available for use elsewhere detrimental if opportunities that could have increased profits could not be taken
 - The business is in the fashion industry; therefore, some items of stock might be out of date. They are no longer of use to the business, which means the money can be sold onto another business. If so, this is likely to be at a lower price to the sold onto another business.
 - Holding excessive amounts of stock could have increased the storage costs of be needed. This increases costs, which subsequently reduces profits.
 - It is difficult to comment on whether the inventory stock control is the only real
 the business at present. However, there it has a part to play, as in recent weeks
 stock, resulting in stock being above the maximum level the business wanted

See Activity 13 Q5 answer for guidance on allocating marks

Total of 16 marks available

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Section 8: Budgets

Activity 15

1. February budget and actual performance statement

	Budget	Actual	Variance
Income	£3,780	£3,600	£180 A
Expenditure	£2,700	£2,500	£200 F
Profit	£1,080	£1,100	£20 F

Budgeted income
$$\frac{£3,150 \times 20}{100}$$
 = £630 + £3,150 = £3,780

Budgeted expenditure
$$\frac{£2,250 \times 20}{100}$$
 = £450 + £2,250 = **£2,700**

Budgeted profit £3,780 - £2,700 = £1,080 A

Income variance £3,780 - £3,600 = **£180 A**

Expenditure variance £2,700 - £2,500 = **£200 F**

Profit variance £1,080 - £1,100 = **£20F**

2 marks each correct formula and answers

1 mark each correctly stating whether the variance is adverse or favourable

Total of 15 marks available

- 2. The **benefits** of an international chain of florists, such as Interflora Business Unit, of
 - as a large organisation it will have a broad range of costs that run into millions management team to have better control of the spending, as the budget can be expenditure, thus allowing overspends and underspends to be identified and recessary;
 - the above allows the management team and/or budget holders to know who makes it easier to identify who is accountable for the performance of certain as
 - in some organisations managers can feel demotivated if the control of the bud Interflora Business Unit managers could feel motivated if they have budgetary for how it is used. This responsibility indicates they are trusted, thereby making important part of the organisation, which should make them feel good about
 - it can provide a means to measure the success of the business; and
 - it allows the florist to monitor targets and highlight where remedial action mig

However, the budgets may be a **drawback** to the group, because:

- if the budget holders are not involved in the budget setting process, they may thus do not commit to its achievement. This is a possibility for an organisation where decisions may be made at head office level;
- in a large organisation it may be difficult to promptly amend the budgets, if madue to the number of people that may need to be involved in the process. This resources not being used to the optimum level for the needs of the business, the being maximised;
- Interflora Business Unit is a large organisation and will have a wealth of data as setting budgets. This could result in the process being overlong and market opappropriate resources are not in place at such times.

In conclusion, a budget should be of benefit to a large organisation such as Interflormechanism to review the needs of each business area and allocate sufficient resourcessfully towards achieving their objectives. However, the extent to which this is of the group to amend the budgets in light of changing market conditions. Taking to accordance with these changes may result in some business areas not performing as necessary resources.

See Activity 13 Q5 answer for guidance on allocating marks

Total of 16 marks available

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1.

	Budget	Actua
Income		
Bakery and coffee shop sales	£220,500	£234,48
Catering service sales	£24,500	£25,02
Total income	£245,000	£259,50
Expenditure		
Materials	£73,500	£85,05
Wages	£130,400	£136,92
Rent	£12,000	£12,00
Marketing	£13,500	£17,60
Total expenditure	£229,400	£251,5
Profit/loss	£15,600	£7,9

2 marks each correct formula and answer

1 mark each stating whether the variance is adverse or favourable correctly

Total of 15 marks available

2. The owners have been concerned that the stock costs were too high, but without a know exactly how much they expected to spend. By producing a budget actual experture allowing the business to monitor its spending. It will highlight if stock costs are for management to determine whether it is justifiable or not, for example, stock costs are demand is higher thus warranting the use of more materials than planned.

See Activity 9 Q3 c) answer for guidance on allocating marks

Total of 3 marks available

- 3. Possible answers:
 - The owners may be concerned as spending on materials is higher than budget sales being higher than expected, thus requiring more expenditure on stock the
 - The owners may be equally concerned that wages are higher than targeted, based higher level of sales, as employees could have been required to work longer have
 - The owners may also have been concerned that marketing expenditure was his
 due to the expansion of the business and more promotions being required to
 service for special occasions.
 - Overall, the owners should be concerned to some extent, as although sales were
 profit was £7,670 lower than expected, suggesting that the additional costs can
 demand. The profit target would have been expected to be bettered in these
 are higher than they should be. The business should look to investigate the man
 whether this is solely down to higher levels of demand or possibly due to increase.

See Activity 13 Q5 answer for guidance on allocating marks

Total of 16 marks available

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Section 9: Cash flow forecasting and analysis

Activity 17

1. 1 mark each

June total cash inflows £15,000
June total cash outflows £12,550
May closing balance £400
June opening balance £400
June net cash flow £2,450
June closing balance £2,850

Total of 6 marks available

2. Possible answers:

The cash position of the business is forecast to be positive for both May and June. To pay the anticipated bills.

The cash balance is expected to increase by over £2,000. If it is not needed for the full it may be wise for the owner to transfer some of it to an interest bearing account, so being used. In a current account the rate of interest will be low, but a higher rate masurplus to requirements is moved to a preferable account.

See Activity 1 Q2 answer for guidance on allocating marks

Total of 6 marks available

Activity 18

1.

	Quarter 1	
Cash inflows		
Repair sales	£1,300	
Electrical sales	£6,500	
Total cash inflows	£7,800	
Cash outflows		
Stock	£5,175	
Labour	£2,440	
Rent	£1,200	
Utilities	£525	
Telephone	£210	
Total cash outflows	£9,550	
Opening balance	£1,125	
Net cash flow	-£1,750	
Closing balance	-£625	

Up to 3 marks data correctly allocated in cash flow forecast

1 mark each correct calculations/answers (in bold) up to **9 marks** maximum

Total of 12 marks available

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- A negative cash flow is predicted for quarter 1 of -£625, but this is expected to Any cash flow problems are expected to be short term.
- A short-term cash flow problem may be better resolved by organising an overwith suppliers for an extended period to pay.
- Introducing an owner to the business could result in Paul Bennett losing some run, but could allow some of the workload to be split or new ideas to be introduced.
- If a new owner is being introduced to resolve cash flow problems this would as the problem does not require a long-term solution. If a new owner is being interesting with the management of the business or helping it to expand, then the
- The final decision will depend on Paul Bennett's motives.

See Activity 10 Q1 d) answer for guidance on allocating marks

Total of 9 marks available

Possible answers:

- alert the business to future cash flow problems
- evidence to support loan/overdraft applications
- assists the business to ensure sufficient cash is available to meet payments as
- assist the business to plan for positive cash balances that could be used to bet interest bearing savings accounts
- time-consuming
- inaccurate due to the experience of an owner, especially in new business start

See Activity 10 Q1 d) answer for guidance on allocating marks

Total of 9 marks available

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Section 10: Break-even analysis

Practice Activity 19

1. £1000 (revenue per customer) – £500 (total variable costs per customer) = £500 co

 $\frac{£1,000 \text{ (fixed costs)}}{£500} = 2 \text{ customers per week to break even}$

1 mark correct contribution per customer formula and data1 mark correct answer for contribution per customer

1 mark correct break-even formula and data

1 mark correct break-even answer

Total of 4 marks available

2. 4 actual customers per week – 2 customers per week to break even = 2 customers

1 mark correct formula and data

1 mark correct answer

Total of 2 marks available

3. Possible answers:

- Trade cannot fall by more than two customers a week, otherwise the business margin of safety is two.
- The business requires two customers a week in order to break even, but is actifiour. This is an advantageous position, as it is operating above the break-even.
- The contribution per customer is £500, therefore once the business breaks even becomes profit. As there are two customers above the break-even level £1000 (£500 ×Business Studies 2) is achieved each week. This could be retained in the fund the development of the business or reward the owners.

0–2 mark limited response with little focus on the question set
 3–4 marks reasonable response with some focus on the question set
 5–6 marks good response with clear focus on the question set

Total of 6 marks available

4. Possible answers:

- The special order provides a positive contribution of £300 (£800 (selling price) customer)), thus it could be accepted at this stage but other factors should be
- Does the business have spare capacity for this order? If the business does have
 so that staff are kept busy and some contribution is being achieved to go towar
 business does not have spare capacity the order will have to be turned down,
 another business who will meet it to the expected standards. This would still a
 income from this order without having to incur the costs associated with it.
- Will the business incur additional fixed costs in organising this event? If so, will loss? In this circumstance it would be best it was not accepted.
- How will this affect existing orders? If the business is not able to service existing
 accepting the special order, it may be best it is turned down, so that a loyal customater standards falling.
- How will existing customers respond, if they become aware of this order? Exist than the special order. This could damage the reputation of the business, if its as unfair and seeks an alternative firm to arrange future events. In this circumsturning down the order.
- Will the special order lead to more orders? If this could provide further financial the interests of the business to accept it.

See Activity 10 Q1 d) answer for guidance on allocating marks

Total of **9 marks** available

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Activity 20

1

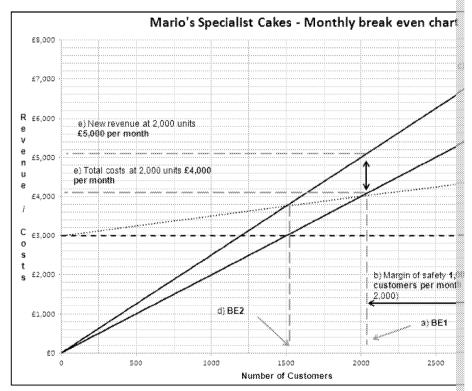
Output	Revenue	Total variable costs	Fixed costs	Tota
0	£0	£0	£3,000	£3
500	£1,000	£250	£3,000	£ 3
1000	£2,000	£500	£3,000	£3
1500	£3,000	£750	£3,000	£3
2000	£4,000	£1,000	£3,000	£4
2500	£5,000	£1,250	£3,000	£4
3000	£6,000	£1,500	£3,000	£4

1 mark for each correct answer up to a maximum of 5 marks

- 2. 2,000 cupcakes a month are required to break even 1 mark for correct answer
- 3. The total costs include fixed costs (1 mark) which have to be paid regardless of whe or sells anything or not (1 mark).

Total of 2 marks available

4.



labelling break-even at 2,000 customers (total of 1 mark availab

b) 1 mark labelling the margin of safety between 2,000 and 3,000 custome identifying the margin of safety as 1,000 customers

Total of 2 marks available

c) 1 mark new revenue line has a minor error **or**2 marks new revenue line accurate
1 mark labelling the new revenue line REV2

Total of **3 marks** available

- d) 1 mark new break-even labelled at 1,500 (total of **1 mark** available)
- e) 1 mark correct answer, 1,500 cupcakes per month (total of **1 mark** avail

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f) Revenue at 2,000 customers per month is £5,000 at the new price level, while is expected to make a £1,000 profit per month (£5,000 – £4,000).

1 mark each correct revenue and total costs data (maximum 2 marks)

1 mark correct formula

1 mark correct profit answer: £1,000 p/month

Total of 4 marks available

g) Possible answers:

- The business can use break-even as a 'what if' tool to determine the imp is to increase to £2.50 per cupcake.
- The business would identify that 500 fewer customers per month are recognized per cupcake increases.
- Although 700 customers could be lost due to the price increase the busing profit with 2,300 customers per month than 3,000.

Original price

3,000 (actual customers) -2,000 (break-even output) = 1,000 margin of safety $1,000 \times £1.50$ (contribution per customer) = £1,500 profit

New price

2,300 (actual customers) - 1,500 (break-even output) = 800 margin of safety $800 \times £2.00$ (contribution per customer) = £1,600 profit

- There is an assumption that all other factors will remain the same. Howe
 fewer items each month, possibly leading to fewer bulk-buying discounts
 increasing, thus resulting in break-even at a higher level.
- Increasing the price results in the loss of customers with little gain in pro
- Break-even analysis will only be useful to the business, if the data on which reliable.

See Activity 10 Q1 d) answer for guidance on allocating marks

Total of **9 marks** available

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Activity 21

1.

Financial item	Cash	Profit
Customer cash sales	✓	✓
Suppliers' trade credit – invoice not paid		✓
Suppliers' trade credit – invoice paid	√	✓
Capital raised from share issue	✓	
Rent payment to landlord	✓	✓
Sale of a fixed asset	√	√
Bank loan	✓	

Allocate 1 mark for each correct answer up to a maximum of 11 marks

Explanation

- Customer cash sales this provides an immediate injection of cash into the bus activities of the business, thus increasing revenue, which should increase the pattern than the costs associated with the sale.
- Suppliers' trade credit (invoice not paid) this relates to the trading activities impact on the profits earned. It will not have an effect on the cash position of has not been paid.
- Suppliers' trade credit (invoice paid) this relates to the trading activities of the on the profits earned. It will have an effect on the cash position of the business been paid.
- Capital raised from a share issue this does not relate to the trading activities
 impact on the profits earned. This will improve the cash balance of the busines
 into the business.
- Rent payment to landlord this will reduce the cash in the business, as a bill is
 to the trading activities of the business and will affect profits.
- Sale of a fixed asset this will increase the cash inflow into the business, and considered to be an extraordinary item of income; achieved outside the norm
- **Bank loan** this is an inflow of cash into the business, but will not have an effect acquired as part of its trading activities.

2.
$$\frac{1,480,054}{£3,017,141} \times 100 = 49.1\%$$
 GPM

See Activity 6 Q1 answer for guidance on allocating marks

Total of 3 marks available

3.
$$\frac{£176,694}{£3,244,431} \times 100 =$$
5.4% OPM

See Activity 6 Q1 answer for guidance on allocating marks

Total of 3 marks available

4.
$$\frac{£99,711}{£3,017,141} \times 100 = 3.3\% PYM$$

See Activity 6 Q1 answer for guidance on allocating marks

Total of 3 marks available

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- Based on the financial data alone the board of directors would not appear to about the financial performance of the business, as all profit measures show
- The gross profit margin suggests the business was more efficient at managing revenue there was an improvement of approximately £0.02 (51.4% – 49.1%) c
- The operating profit margin also indicates the business was more efficient, but to
 for every £1 of revenue there was an improvement of nearly £0.01 (5.4% 4.7%)
- The profit for the year margin also suggests the business was more efficient either charges on borrowing and/or at generating profits from non-trading activities, nearly £0.05 of profit for the year 2014 was earned in comparison to approximate the profit for the year 2014 was earned in comparison to approximate the profit for the year 2014 was earned in comparison.
- Taking into consideration the difficult trading conditions with consumers more
 essential items, it would appear the performance of the business has been mos
 improved at a time when consumers are being more cautious regarding their
- However, the business may consider the improved performance not satisfactor

See Activity 10 Q1 d) answer for guidance on allocating marks

Total of **9 marks** available

6. Possible answers:

- Although Precision is a profitable business it has embarked on an expansion st which could have impacted on its cash position. Setting up new retail branche balance being reduced, as some of the costs associated with this growth could
- As the business sets up its operations in the Asian region it will incur cash outginitially, as it will take time before each branch is ready to start trading.
- The business will need to hold a certain amount of stock in its retail branches, purchases, resulting in some of its cash being tied up in these items.

See Activity 19 Q3 answer for guidance on allocating marks

Total of 6 marks available

Activity 22

1.
$$\frac{£180.4m}{£619.4m} \times 100 = 29.1\% GPM$$

See Activity 6 Q1 answer for guidance on allocating marks

Total of 3 marks available

2.
$$\frac{£76.0 \text{m}}{£619.4 \text{m}} \times 100 = 12.3\% \text{ NPM}$$

See Activity 6 Q1 answer for guidance on allocating marks

Total of 3 marks available

3.
$$\frac{£54.5m}{£619.4m} \times 100 = 8.8\% PYM$$

See Activity 6 Q1 answer for guidance on allocating marks

Total of **3 marks** available

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- The performance of Cineworld between 2013 and 2014 has been very success
 against all indicators.
- The gross profit margin has increased by 1.3% (29.1% 27.8%) indicating that managing its costs of sales, as a greater proportion of gross profit is being achieved.
- The operating profit margin has increased by 3.1% (12.3% 9.2%); for each £1 approximately £0.03 more operating profit being generated, thus suggesting to managing its overheads.
- The profit for the year margin has increased by 3.6% (8.8% 5.2%), which mean the profit for the year, after all cost deductions from revenue and profit from increased by nearly £0.04. This indicates it may be less reliant on borrowing, the charges and/or it is generating more profits from non-trading activities.
- Overall the business seems to be in a strong position, as revenues have increase fall in cinema attendance between 2013 and 2014. This could be partly due to 'Superscreens' it provides that differentiate it from competitors, thus allowing rivals whose services may not be judged as good by consumers.
- Lastly, the business has been able to embark on a successful programme of exmarket leader, indicating a successful trading period.

See Activity 10 Q1 d) answer for guidance on allocating marks

Total of 9 marks available

5. Possible answers:

- Increase the number of ticket sales this will spread the fixed costs of the bused reducing the unit costs and allowing a higher profit margin. The strategies used could increase costs, such as offering discounts or an advertising campaign, but effect profit margins will fall rather than increase.
- Increase prices the business has been successful at charging higher prices for viewings, for example, possibly due to it being perceived as unique and of sufficience on 2D films may be unsuccessful if consumers consider the not an alternative cinema in the locality or the cinema experience is considered consumers could pay the higher price.
- Reduce costs the business will have little flexibility on the costs associated will maintain significant control over these. It may be able to negotiate improve source new ones for the food and drink items they sell. The lower costs could a quality standards are compromised or suppliers cannot be guaranteed to delive switch to an alternative cinema, resulting in profits falling.

See Activity 19 Q3 answer for guidance on allocating marks

Total of 6 marks available

NSPECTION COPY



Section 12: Human resources data

Activity 23

1. $2013 \frac{6,000}{30} = 200$ bicycles per employee

2015 $\frac{8,575}{35}$ = **245** bicycles per employee

245 - 200 = 45 increase per employee

1 mark each correct labour productivity formula for each year
 1 mark each correct labour productivity data for each year
 1 mark each correct labour productivity answer for each year
 1 mark correct formula/data for calculating the difference

1 mark correct difference answer

Total of 8 marks available

2. Possible answers:

- The labour productivity of the business has improved, as by 2015 each employ than 2013.
- The higher level of output will help to reduce the unit costs of the business, re
- The increased productivity will assist the business in meeting growing demand employ more staff, thus helping to keep costs low but improve profits.
- The increased productivity indicates that staff morale at the business is good, increased effort to produce more.

See Activity 19 Q3 answer for guidance on allocating marks

Total of 6 marks available

3.
$$2013\frac{4\times100}{30} = 13.3\%$$

$$2015\frac{1\times100}{35} = 2.9\%$$

See Activity 3 Q4 answer for guidance on allocating marks

Total of 6 marks available

4. Possible answers:

- Staff are leaving the business on a less frequent basis, as there has been a decilion.
 10.4% (13.3% 2.9%).
- A lower labour turnover rate reduces the recruitment and selection costs of the profits.
- A lower labour turnover rate adds to the positive reputation of the business, a employer with motivated employees and may find it easier to attract new one

See Activity 1 Q2 answer for guidance on allocating marks

Total of 6 marks available

5. 2013
$$\frac{30.4}{30} \times 100 = \frac{26}{30} \times 100 = 86.7\%$$
 labour retention

2015
$$\frac{35.1}{35} \times 100 = \frac{34}{35} \times 100 =$$
97.1% labour retention

See Activity 6 Q1 answer for guidance on allocating marks

Total of 6 marks available

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- Staff are leaving the business on a less frequent basis, as there is an increase in (97.1% 86.7%).
- This indicates employees are content to remain with the business, as only one
- A higher labour retention reduces the recruitment and selection costs of the b
- A higher labour retention rate adds to the positive reputation of the business,
 employer with motivated employees and may find it easier to attract new one
 See Activity 1 Q2 answer for guidance on allocating marks

See Activity 19 Q3 answer for guidance on allocating marks

Total of 6 marks available

7. Possible answers:

- Bonuses employees that are motivated by money (Taylor) may be encourage
 to achieve the bonus available. This would have contributed to improved proc
 stay with the business. However, not all employees are motivated by money.
- Team working organising employees to work in teams could be motivating as (Maslow – social needs). They feel like they belong and will give their best efforteam down. The latter will encourage improved productivity, while the former with the business if they feel they fit in.
- Contributing ideas contributing ideas can enhance employee morale, as the recognised.
- Training employees whether new or existing will feel valued, as the business so that not only do they fit in with the business and understand how it operate which can assist their advancement within it. This will assist staff motivation, efforts and stay with the business.

See Activity 19 Q3 answer for guidance on allocating marks

Total of 6 marks available

Activity 24

1. Furniture Delight $\frac{3 \times 100}{14} = 21.4\%$

Haynes Furniture Designs $\frac{4 \times 100}{16} = 25.0\%$

See Activity 6 Q1 answer for guidance on allocating marks

Total of 6 marks available

2. Furniture Delight $\frac{476}{14}$ = **34 items of furniture per employee**

Haynes Furniture Designs $\frac{496}{16}$ = 31 items of furniture per employee

See Activity 6 Q1 answer for guidance on allocating marks

Total of 6 marks available

3. Furniture Delight $\frac{£202,100}{476}$ = £424.58 labour costs per unit

Haynes Furniture Designs $\frac{£277,330}{496}$ = £559.13 labour costs per unit

See Activity 6 Q1 answer for guidance on allocating marks

Total of 6 marks available

INSPECTION COPY



4. Furniture Delight $\frac{£202,100}{£750,000}$ × 100 = 26.9% employee costs as a percentage of revenue

Haynes Furniture Designs $\frac{£277,330}{£694,400} \times 100 = 39.9\%$ employee costs as a percentage of

See Activity 6 Q1 answer for quidance on allocating marks

Total of 6 marks available

5. Possible answers:

- Furniture Design would appear to have the most effective workforce, as they 3 (34 31) items of furniture per employee and a lower labour turnover rate by (25% 21.4%).
- If each business had similar fixed costs Furniture Design would have a lower unwould be spread across more items of furniture, thus allowing a higher profit selling price were the same.
- Furniture Delight has a lower labour cost per unit than Haynes Furniture Design £424.58).
- Furniture Delight's employee costs as a percentage of revenue are 13% lower (39.9% 26.9%), thus indicating that proportionally less of its revenue has to go
- Each human resources indicator suggests that Furniture Delight is more efficient
- However, the data does not provide information on the quality of the items proof days lost due to accidents, therefore without this information a definitive control which business is deemed to have the most effective workforce.

See Activity 10 Q1d answer for guidance on allocating marks

Total of 9 marks available

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SECTION 15: SUGGESTED ANSWERS TO AS ASSESS

Paper 1: Business 1

Marking criteria for Sections B and C

Use the following marking criteria to award marks. Please note guidance on awarding marks some suggested answers.

4 marks

Level	Typical candidate response
3	Good knowledge and understanding demonstrated and is applied in the ${\ensuremath{\mathbb{C}}}$
2	Reasonable knowledge and understanding demonstrated and some application
1	Limited knowledge and understanding demonstrated and lacking application

5 marks

Level	Typical candidate response
3	Good response that focuses on the demands of the question with well-dev
	and is effectively applied in context.
2	Reasonable response that focuses on some of the demands of the question
	analysis and is applied in context.
1	Limited response with little focus on the demands of the question with lim
	of analysis and descriptive application in context.

6 marks

Level	Typical candidate response
3	Good response that focuses on the demands of the question with well-de
3	and is effectively applied in context.
	Reasonable response that focuses on some of the demands of the questic
2	analysis and is applied in context.
1	Limited response with little focus on the demands of the question with lir
	of analysis and descriptive application in context.

16 marks

Level	Typical candidate response
	Excellent key response that focuses on the demands of the question with
4	throughout. The response is consistently in context. The judgement is cor
	the analysis with a balanced response, which focuses on the question thre
·	Good response that focuses on the demands of the question with well-de
3	and is effectively applied in context. Judgement linked to analysis, which
	focuses on the question as a whole.
2	Reasonable response that focuses on some of the demands of the questic
2	analysis and is applied in context. Judgement linked to analysis but lacks b
	Limited response with little focus on the demands of the question with lir
1	of analysis and descriptive application in context. Judgement made but lin
	analysis.

Section A

- 1. B
- 2. D
- 3. D
- 4. C
- 5. B
- 6. A
- 7. C
- 8. D
- 9. A
- 10. B

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Section B

11. £23.50 (selling price per unit) – £11.50 (total variable costs per unit) = £12 contribu

 $\frac{\text{£42,000.00 (fixed costs)}}{\text{£12.00}} = 3,500 \text{ units per quarter to break even (1,167 units on average)}$

1–2 marks correct contribution per customer formula and data 1 mark correct answer for contribution per customer

1 mark correct break-even formula and data

1 mark correct break-even answer

Total of 5 marks available

12. Possible answers include:

- informs a business of the minimum level of sales to ensure all costs are covered
- allows the business to know whether its current level of sales is sufficient to complement remedial action to turn the situation around
- can support a financing application
- can be used as a 'what-if' tool, so the business knows the implications on the business knows the implications of the business knows the implication in the business knows the implication in the business knows the implication in the business knows the business kn

4 marks available

- 13. Possible answers regarding why Drovers Engineering Ltd might be experiencing sto
 - up until week 3 there were no issues regarding inventory control, as inventory arrived about 3½ days later on each occasion
 - the business experienced a stock out in week 5 indicating that either the business supplier(s) had not delivered on time. If it is the latter, the business would still inventory arriving a week later rather than the usual 3½ days.
 - the business has experienced another stock out midway through week 6 and 7
 appear to have taken account of the buffer stock being used to meet orders with the stock out midway through week 6 and 7
 - the business has not ordered sufficient stock since this occurrence to restore it
 160 units. It appears to have ordered in week 5 100 units rather than the requirements.

6 marks available

14. Possible answers:

- change supplier the business has had problems with inventory control over a therefore, does this warrant changing supplier? If so, it is presumed the supplie business has lost trust in them supplying the business in accordance with the tecontract. However, changing supplier is not automatic, as time will be required them and put measures in place to ensure they can supply the inventory as expocurred with the existing supplier(s) can be resolved by working more closely to finding new ones, as this should require the least amount of time and effort.
- review and amend the existing inventory control system where possible although down by suppliers delivering late and in the correct quantity, it does not appear it occurrences, as the orders placed during weeks 5 and 6 did not restore the busines indicates that staff in charge of this area did not appreciate the need to order a greatire circumstances 160 units, rather than 120 units as there had been a stock out. The which should allow the business to respond accordingly if similar inventory control However, there is a cost to this, but this is minor in comparison to losing key custo
- introduce an electronic system for managing inventory assuming staff scan received from suppliers and also scan goods sent to customers, this should allow record of each type of inventory it holds at any moment in time. If this is linked remove the need for a person to manually place an order when inventory reach automatic order will be triggered. This is more likely to be completed in a time the latter might require inventory levels to be physically checked before an order when initial cost and time associated with introducing an electronic system some firms, but, if completed successfully, it could reduce the need for the just-in-time system could be used. Nevertheless, this will depend on having residuals.

5 marks available

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15. a) Popcorn

 $(£30.0m \times 0.65) + (£12.0m \times 0.35) - 2 marks$

£19.5m + £4.2m = £23.7m expected value – 1 mark

£23.7m - £5.0m = £18.7m net gain - 1 mark

Launching a premium popcorn range has a net value of £18.7m.

Vegetable crisps:

 $(£17.0m \times 0.7) + (£7.0m \times 0.3) - 2 marks$

£11.9m + £2.1m = £14.0m expected value – 1 mark

£14.0m - £2.0m = £12.0m net gain - 1 mark

Launching a premium vegetable crisps range has a net value of £18.7m.

Based on the net gains, only Moretti Ltd should launch the premium popcorn

b) Possible answers:

Reasons for launching a new product

- decline in market sales for crisps by 2%, including premium crisps
- changing consumer tastes
- the business has an innovative culture where it is always seeking new op
- growing new markets popcorn (40%) and vegetable crisps
- strong 'Rocco' brand image can help it to differentiate itself against exist markets
- Rocco is considered a luxury brand, as it has an income elasticity of demains using the brand to launch new premium products would be advantageous be luxurious.

Reasons against launching a new product

- continued business success even with the declining UK crisp market, thus directly affected by this trend
- competitors are already operating in both the popcorn and vegetable crisis
 might find it difficult to attract consumers from such rivals, if they have estimated
- the business has not considered launching into new markets with existing than launching new ones. These should be investigated before making a
- the chance of success with premium popcorn is 65% while with vegetable businesses this is still not a high enough chance of success.
- vegetable crisps has a higher chance of success than popcorn, but due to is chosen. This possibly should be given greater consideration.

Depends on

- the innovative business culture indicates Moretti Ltd will look to do some
- the extent to which the business should launch a new product will depend business's core objective is to enter new markets or launch new products

16 marks available

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- 2015 profit margin for the year: $\frac{1.1}{4.2} \times 100 = 26.2\%$
- the profit margin for the year has improved between 2014 and 2015 by 4 revenue nearly £0.26 was profit for the year after all deductions had bee dividends
- the improvement could be due to better management of costs in the bus implementing the suggested improvements of staff
- the business appears to have a positive relationship with its employees as
 often
- the retention rate has increased by 1.3% (97.8% 96.5%) thus indicating with the business
- this could be in part due to staff feeling part of the organisation, as they
- in addition, good staff performance is recognised through the employee staff feel their efforts are recognised
- staff will also feel the business is willing to invest in them due to the train support their development
- each of the above human resources factors would contribute to staff bei

Award up to **3 marks** for the profit margin for the year calculation

1 mark correct formula 1 mark correct numbers 1 mark correct answer

Level	Typical candidate response
3	Good response that focuses on the demands of the question with
	and is effectively applied in context.
2	Reasonable response that focuses on some of the demands of the
	developed analysis and is applied in context.
1	Limited response with little focus on the demands of the question
	development of analysis and descriptive application in context.

b) Possible answers:

Staff do contribute

- they suggest improvements, which can improve the efficiency of the bus
- staff are probably motivated due to the democratic style of leadership, we perform to the best of their ability. This results in them providing services
- staff efforts have contributed to the business winning awards and being
- all of the above would attract customers and allow the business to enjoy both during peak and non-peak seasons

Other factors

- budget hotel market is growing; therefore, market trends are a factor in
- the marketing strategy of the business influences success. It has chosen to
 popular with tourists coastal regions but also convenient to business
 good transportation links.
- the national award helps the hotel chain to be differentiated from rivals
- it is presumed market conditions are favourable for both domestic and o

Overall

- as it is a service industry business employees have a significant part to pl
- however, they are not the only reason for the chain's success
- favourable market conditions would have also influenced this success, al appropriate locations to open which meet the expectations of its custom

16 marks available

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Paper 2: Business 2

Marking criteria

Use the following marking criteria to award marks. Please note guidance on awarding massome suggested answers.

4 marks

Level	Typical candidate response
3	Good knowledge and understanding demonstrated and is applied in the c
2	Reasonable knowledge and understanding demonstrated and some applications.
1	Limited knowledge and understanding demonstrated and lacking applicat

9 marks

Level	Typical candidate response
3	Good response that focuses on the demands of the question with well-dev
3	is effectively applied in context.
2	Reasonable response that focuses on some of the demands of the question
	analysis and is applied in context.
1	Limited response with little focus on the demands of the question with lim
	analysis and descriptive application in context.

16 marks

Level	Typical candidate response
4	Excellent key response that focuses on the demands of the question with
	throughout. The response is consistently in context. The judgement is con
	analysis with a balanced response, which focuses on the question through
3	Good response that focuses on the demands of the question with well-de
	is effectively applied in context. Judgement linked to analysis, which is ba
	the question as a whole.
2	Reasonable response that focuses on some of the demands of the questic
	analysis and applied in context. Judgement linked to analysis but lacks ba
1	Limited response with little focus on the demands of the question with lin
	analysis and descriptive application in context. Judgement made but limit

18 marks available

Level	Typical candidate response
5	Excellent key response that focuses on the demands of the question with
	throughout. The response is consistently in context. The judgement is con-
	analysis with a balanced response, which focuses on the question through
4	Good response that focuses on the demands of the question with well-de
	is effectively applied in context. Judgement linked to analysis, which is ba
	the question as a whole.
3	Reasonable response that focuses on some of the demands of the question
	analysis and is applied in context. Judgement linked to analysis but lacks by
2	Limited response with little focus on the demands of the question with lim
	analysis and mainly descriptive application in context. Judgement made b
	analysis.
1	A weak response lacking focus on the demands of the question. Descript
	context. Judgements are based on assertions.

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1. 5 marks available

£0.05 (processing) + £0.30 (labour) + £0.26 (ingredients) + £0.14 (packaging) = £0.75 1 mark for correct formula and 1 mark for correct answer

£3.25 – £0.75 = **£2.50** contribution per litre **1** mark for correct formula and **1** mark for correct answer

 $\frac{£3,500}{£2.50}$ = 1, 400 litres per month is the break-even quantity

1 mark for correct answer

2. 3 marks available

Budgeted income - budgeted expenditure = budgeted profit

£4,760 (labour) + £1,200 (stock) + £1,085 (other costs) = £7,045 (budgeted expending $\mathbf{1}$ mark for correct formula and $\mathbf{1}$ mark for correct answer

£9,150 – £7,045 = £2,105 (budgeted profit) **1** mark for correct answer

3. Possible answers:

- If the business does need to acquire a loan or extend its overdraft to cover broan ice cream parlour, a set of clear budget statements could support a finance potential lender. This indicates that the business is well planned and managed
- As a business embarks on expanding costs will be incurred. Setting a budget coverspends are avoided.
- Setting a budget allows the business to monitor its performance against the
 concerned about a downturn in the economy a budget could assist the busines
 failure, along with the strategies that are needed for future success.
- By setting budgets for the individual sales areas of the business for example of the budget holders of these areas. They will have control over decision-making be spent. This could be motivational as they have been given responsibility.

9 marks available

4. Puddle Down Farm's ice cream is not particularly sensitive to a change in price. Its price indicates demand is price inelastic. As the coefficient is negative and less than 1, it rewill decrease, but it will be a smaller proportional change than the percentage changes's revenue increasing rather than decreasing. Timothy is correct that the although demand will slightly fall revenue will still be increased. Increasing the price

4 marks available

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- Opening balance (QTR 2) + net cash flows (QTR 2) = closing balance
- -£2,350 + £10,250 = £7,900 allow up to**3 marks**
- The construction work necessary for the product range will lead to the business Quarter 1. This may cause problems for the business if it is not able to meet adamage the good reputation of the business and may not be easily repaired. Ho this is likely to occur, financial arrangements could be put in place to prevent an overdraft, as the negative cash balance is for less than one year; therefore, Suppliers could be asked for longer to pay, thus delaying payments out of the
- The negative cash balance is short term, suggesting that it is not a permanent p
 2 a positive cash balance of £7,900 is predicted. This indicates that any finan-likely to be secured, as a potential lender can clearly see this is not a long-term
- The cash flow forecast does not appear to allow for the additional income and
 either opening the ice cream parlour or accepting the supermarket order. These
 flow forecast to have a certain picture of the business's expected cash flow positions.

Award up to **3 marks** for the Quarter 2 closing cash balance calculation **1 mark each** for the correct formula, data and answer

Level	Typical candidate response
3	Good response that focuses on the demands of the question with well and is effectively applied in context.
2	Reasonable response that focuses on some of the demands of the que developed analysis and is applied in context.
1	Limited response with little focus on the demands of the question with development of analysis and descriptive application in context.

Total of 9 marks available

6. Possible answers:

Positives of working at full capacity

- The current capacity utilisation is 80%. The business has spare capacity that is
- Increasing the capacity could allow the business to increase its profits.
- If 2,000 litres are sold a month the business makes approximately £1,500 prof
- Operating at 2,500 units provides the business with an additional monthly pro
- Clearly if the capacity of the business is increased through the supermarket or for the business to increase its profits.
- Working at full capacity so it can service the supermarket contract provides the and gain a stronger presence across the UK with its brand of ice creams.

Drawbacks of working at full capacity

- The business may incur additional costs to maintain and service the machinery it to operate at full capacity.
- If the machinery breaks down during a production run it is unlikely the businestime, which could harm its reputation with suppliers.
- Staff will be required to work to their maximum over a continuous period of detrimental to the way in which they work. Errors could start to creep in who produced. This would be a severe problem for the business as quality is an essential to the severe problem.

Overall

- It is difficult to state whether operating at full capacity will harm the business being available, as the impact on staff and existing customers needs careful con
- However, working at full capacity even for the short term to meet all custome provides the opportunity for the business to improve its profitability and indicating that at least for the short term it has the potential to provide more

16 marks available

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Negative impact on financial performance

- Less revenue per litre as the supermarket will be paying £0.75 less (£3.25 £2)
- As the business will be supplying 4,000 litres, the business will earn £3,000 less the usual price.
- Existing business customers might consider Puddle Down Farm as disloyal supermarket for its products, which could result in them finding a new supplier and profits.
- Fixed costs have to be incurred to take on this order and there is no guarantee continued beyond two years.

Positive impact on financial performance

- Assuming all other factors remain the same, except the selling price to the seprovides £1.75 contribution per unit (£2.50 £0.75). This is profit, assuming the fixed costs incurred. This is an additional £7,000 profit per month for the business.
 North West. This is an additional £84,000 of profit available to the business.
- The business currently is budgeting for a Quarter 2 profit of £2,105. Accepting to quarterly profit of £21,000, which is significantly more than the stated budget.
- Assuming the supermarket order is expanded to all UK branches it could significant.
- The profile of the brand is raised, which in itself can lead to greater brand recochoosing to purchase the brand beyond the supermarket, as they are familiar

Overall

- Clearly the supermarket order could significantly improve the profits for Pudd
- However, it all depends on the business's ability to manage the higher level of so and any negative reaction from existing customers to the lower price receive the expected benefits of this new order not materialising.

16 marks available

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Ice cream parlour

For

- The ice cream market is growing, suggesting it is a good time to expand.
- Lower long-term fixed costs
- As the business has price inelastic demand it could increase prices, which would to go towards covering the additional costs.
- There is no need to increase capacity or outsource production to a third party
- Less risky than the supermarket order, as the business maintains full control.

Against

- It does not provide the same level of profit growth as the supermarket order.
- New employee skills may be required for this particular venture, which involve staff. Each of these increases costs.
- Can the existing business operations continue while the ice cream parlour is be will miss out on revenue over the period of time it takes to get it ready. How indicating the subsequent additional revenue will resolve this.

Supermarket order

For

- Increased profit of £7,000 per month, £84,000 per annum.
- Potential of far greater profits than the above, if the brand is launched across
- Improved brand recognition, which in itself can help it to stand out in the mar
- Being associated with the supermarket could make it become the must-have in
- Ice cream market is growing.

Against

- Supermarket demanding a lower selling price.
- Response of existing customers to the above.
- What are the possible demands the supermarket will place on the business? V/o packaging, etc.? Will it want to discount the product during special promotion costs associated with this?
- There is no guarantee the contract will be extended beyond the two years. If the supplies the supermarket, will it be able to meet the additional fixed costs after
- Existing capacity cannot even meet the initial two-year supermarket contract; this might involve outsourcing. This is risky as the business will not have direct result in the supplier not meeting the standards expected. The brand could be

Overall

- The final decision will depend on the level of risk that the business is willing to market research conducted by Timothy. If the venture is considered too high
- It will also depend on how each option fits in with the corporate objectives.
- Furthermore, the quality of the research carried out will influence the decision
- The supermarket order might be considered riskier, as there is no guarantee is
 therefore, the business might decide to go with the ice cream parlour, whice
 certainty. However, it would have to accept the profits will not be at the same
 order.

18 marks available

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