

Data Response Case Studies

For AS / A Level Year 1 OCR Economics: Microeconomics

Second Edition, February 2022

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Teacher's Introduction

This resource is designed to be used for teaching the microeconomics section of OCR AS Economics. It is designed to be co-teachable with A Level, covering only 'Year 1' topics that are shared with AS. The resource consists of 12 Data Response Case Studies intended for students to complete as homework tasks.

The case studies are presented in specification order, collectively covering each topic in the AS/A Level specification. Each case study contains detailed information (including diagrams and data), and tasks and questions.

The 'Use the data' tasks focus particularly on quantitative skills, and the 'Test your knowledge' mainly on AO1/2 knowledge and application skills. The extended-response questions are an opportunity for students to practise higher-level analysis and evaluation skills. Most of the questions given are in exam style, although we have not limited questions to this style except in the case of the extended-response questions. Detailed answers are provided for all tasks and questions.

Reading through each study and answering the questions is expected to take 20–30 minutes, not including the extended-response questions at the end of each case study. One option for using these is to work through a case study in class and set the exam-style evaluation question as homework.

This resource will help prepare students for the Paper 1 component of the AS and A Level exams, but also stimulate an interest in the real-world applications of microeconomics. Each case study uses real data, introducing the student to a fascinating array of contemporary microeconomic issues.

I hope this resource helps you to bring economics to life for your students.

September 2017

Update v2, February 2022

Minor updates to match 2019 specification: specification topic names updated throughout.

	Case study	Specification reference
1.	Innovation at Ford	'Opportunity Cost' and 'Specialisation and Trade'
2.	Black gold	'Supply and Demand and the Interaction of Markets'
3.	The UK dairy market in decline	'Costs and Revenue,' 'Supply and Demand and the Interaction of Markets' and 'Elasticity'.
4.	Football ticket prices	'Supply and Demand and the Interaction of Markets' and 'Elasticity'
5.	Organic food vs Poundland	'Elasticity'
6.	Online news vs print news	'Elasticity'
7.	China's pollution problem	'Market failure and externalities' and 'Government failure'
8.	The UK housing market: pulling up the ladder?	'The Basic Economic Problem' and 'Externalities'
9.	Should the government tax sugar?	'Externalities' and 'Government Intervention'
10.	Solar panel subsidies	'Government Intervention'
11.	A minimum price for alcohol?	'Government Intervention'
12.	Reforming the NHS	'Government Intervention'



Innovation at Ford

This case study requires knowledge of the topics 'Opportunity Cost' and 'Specialis'

In the early twentieth century, the automobile manufacturer Ford was will the increase in Ford's profits over time, compared to modern-day equivalent

Figure 1: net profit (pre-tax)

	Ford (\$million, 1910)		Volkswagen (€billion)
1910	4.2	2010	7
1911	7.4	2011	11.3
1912	13.1	2017	11.5
1913	26.5	€ 13	11.8
1914	30 /	2014	12.7
1915		2015	-1.7*

*Third quarte

e

Source (Ford 1910): 'Did Henry Ford Pay Efficiency Wa

Of course, the figures are not directly comparable but the percentage chan the period 1910–1915 far exceeds that of most modern-day companies. As automobile market was booming, there are two main explanations for Forthe production process and so-called 'efficiency wages'.

Improvements in technology meant that Ford's workers could operate on specialised in their particular task, allowing for greater productivity and of Smith's pin factory idea). Ford's competitors were also able to benefit from the reason that Ford was able to excel above its competitors was through particular task, allowing for greater productivity and of the reason that Ford was able to excel above its competitors was through particular task, allowing for greater productivity and of the productivity and of the reason that Ford was able to excel above its competitors was through particular task, allowing for greater productivity and of the productivity and the productivity and of the productivity and the product

Standard economic theory would suggest that a firm would only increase its wages if it sought to attract higher-skilled workers, but in this case that doesn't seem to hold true. Although increasing the wage (to around twice the market rate) did increase Ford's costs, this was more than offset by improvements in productivity. Between 1913 and 1914, production increased by 15%, despite reducing the number of workers by 14% and cutting the number of working hours in a day (although large part of this may be due to the large part of this may be due to the large part of the large part o



One of the big problems Ford had in the year prior to the wage change was (around 10%), perhaps because working in a car factory was so unpleasant absentee rates fell to only 2.5%, and the number of discharges (firing of woworkers were so keen to keep their jobs.



Ford saved a lot of money at the time by dramatically reducing their turnor can partially be explained by an economic downturn at the time, there does that paying a higher wage incentivised workers to stay with Ford and increase and the particularly important for Ford, since on an assembly line the effective depends on the speed of every part of the line.

Some have argued that Ford's experience provides evidence for raising the introducing a living wage. This is not necessarily the case, however, since policy was that their wages were high *relative to their competitors*. If everyominimum wage, the incentive effects for workers probably wouldn't be as

Use the data

- 1. (a) Calculate the percan charge in profit for Ford between 1912 and 1
 - (b) Calculate * Example change in profit for Volkswagen between 201
- 2. Why d wagen's profit fall so much in 2015? (If you don't know look
- Name one disadvantage of specialisation in the automobile industry, and exproblem.

Test your knowledge...

- Show the effect of specialisation in the automobile industry using a PPF with x-axis (horizontal axis) and number of other goods on the y-axis (vertical axis other industries remains the same.
- 2. Show the effect of high worker productivity on a demand and supply diagram

Extended-response question

 Assess the pros and cons of specialisation in the teaching profession (e.g. w) subject rather than a range of subjects).



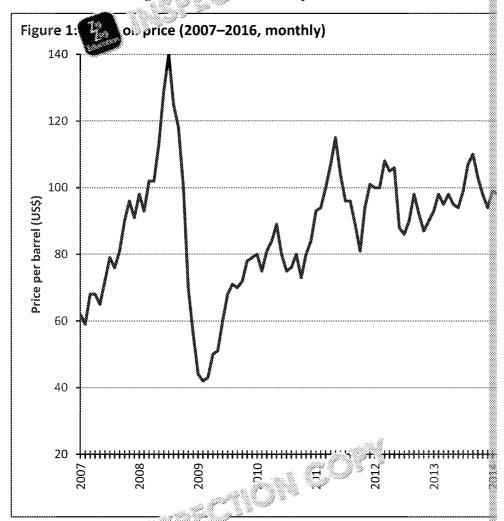


Black gold

This case study requires knowledge of the topic 'Supply and Demand and the Inte

Investing in commodities is a big business. Speculators vie to predict price movements in all sorts of commodities such as gold, meat and coffee – but prices are often very difficult to predict. The price of the most valuable commodity of them all, oil, is notoriously unpredictable.

Swings in crude oil prices not only decide the fate of wasters and oil companies, they can also have a huge impact whole economies, particularly those that waste world price of oil since 2007:



The volation the price can be explained through simple demand and 2008 global scial crisis, a fall in demand was the key reason for the pluglobal demand is still somewhat weak, and there is a growing interest in the main explanation for the more recent price drop (2015 onwards) is that

Advances in technology have allowed production of shale oil in the US to The relaxing of economic sanctions in Iran has also enabled them to increa addition to this, oil production by OPEC members (Organization of the Petsuch as Saudi Arabia has remained high. Some argue that since OPEC coucosts, they are trying to force their competitors out of the market by deliber



If this is the case, they may well be succeeding. British Petroleum (BP) is confits total employees), and many other large oil companies are cancelling. Russian and Venezuelan economies, which are heavily dependent on oil experience.

Obtaining estimates of the price and elasticities of demand and supply for generally accepted that the demand for oil is price inelastic (particularly in supply has become less price inelastic as the number of different methods has expanded.

Use the data

- 1. Using Figure 1, estimate the percentage decreas in the oil price from the standard 2016.
- 2. Why is the price elastic of an and for oil expected to be lower in the show

Test you powledge...

- 1. What is meant by the problem of 'scarcity'?
- Explain how a growing interest in the renewable energy sector would be explained for oil.
- 3. Based on the information in the article, use demand and supply diagrams to s
 - (a) During the financial crisis
 - (b) After 2015

Extended-response question

 Suppose that a technological breakthrough made a particular type of renew Using a diagram, evaluate the effect of this development on the market for





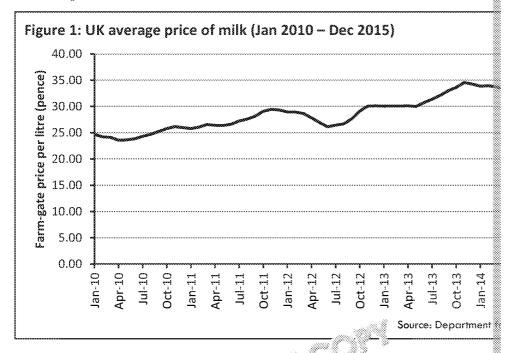
The UK dairy market in decl

This case study requires knowledge of the topics 'Costs and Revenue', 'Supply and Markets' and 'Elasticity'.

Dairy farmers in the UK had a very rough year in 2015. In January, First Milk, a large dairy processor that farmers sell their milk to, ran into financial problems, resulting in a two-week delay in payments to farmers. Following this, throughout the year various factors have combined to reduce the price of milk. This has meant that many farmers now or the produce the below their costs of produce the produce to reduce the price of milk.

Figure 1 sl K milk prices over time. This is the m-gate price' – the price at which farmers sell milk to dairies (who then

process the milk and pass it on to retailers). As such, the farm-gate price is in the supermarket:



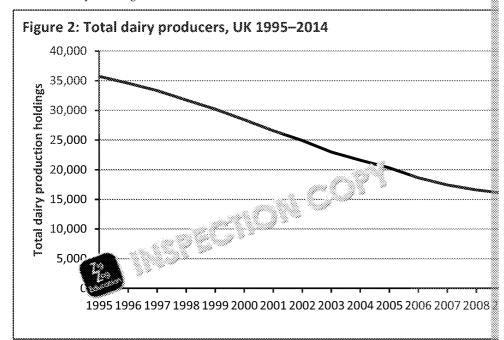
One of the reasons why prices are so the that there is an excess supply of partly due to good weather country is trainers were affected by few drought there was a burn, a chartest).

The fall in has been coupled with a fall in global demand: the slow has reduced their demand for all sorts of goods including milk, and econo prevented them from importing milk from UK producers. Domestic demands consumption in the UK has fallen by 18% over the last 20 years.

Other factors hurting UK producers have been price wars in UK supermains some supermarkets price milk very cheaply to attract people into the shop buy higher value items (in some cases, milk has been cheaper than water) has also hurt farmers.



These factors forced some UK dairy farmers out of the market in 2015. The the industry, as Figure 2 shows:



Another reason for the decline in the fortunes of dairy farmers could be clearly Between 2013 and 2015, the market value of nut- and seed-based milk alternation increased by 177%. Consumers are willing to pay more for these alternations.

Some commentators argue that milk has been homogenised and treated so longer aware that there can be a great variety of different tastes between make the bacteria in milk by heat treatment) started as a wartime necessity for prolonowadays milk still tends to be produced as cheaply as possible with little Perhaps this matters less in the UK where milk is usually added to tea, coff consumed on its own (as in some other European countries), but the lack of may be another reason why the industry is in decline.

Use the data

- 1. State the three functions of the price mechanism.
- Look at Figure 1. Estimate the percentage change in price between the peak December 2015.
- 3. If the number of dairy producers in the UK is falling, the price of milk will ris

Test your knowledge...

- 1. (a) Define the term 'consumer sur me
 - (b) Define the term 'produler's വിവര്
 - (c) Draw a dema அத்திற்ற diagram for the milk market, labelling prod si
- 2. Show the ct of a fall in demand and an increase in supply on the market
- 3. (a) List **two** factors that shift demand.
 - (b) List two factors that shift supply.
- 4. Identify one possible fixed cost and one possible variable cost for dairy farm
- 5. If demand for milk is price elastic, what does this suggest about the average re

Extended-response question

Evaluate whether the rise of milk alternatives, which sell for much higher printing good or bad for milk producers.



Football ticket prices

This case study requires knowledge of the topics 'Supply and Demand and the Intand 'Elasticity'.

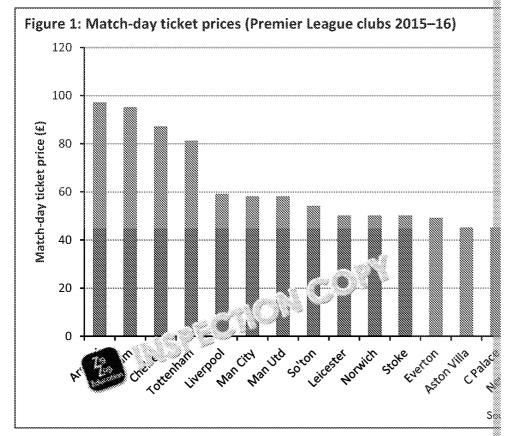
Football is the world's most popular sport. Consequently, there is an awful lot of money involved.

When it comes to pricing match-day tickets, football clubs have something of a dilemma. On the one hand, seats for Premier League match is are rarely left empty, so increasing the result is should be a guaranteed you will receive revenues (as every important for staying colors, ve, particularly for attracting



and retaining top players and managers). However, raising prices too mustootball can be a fundamental part of their lives. For many fans, watching substitute for attending the game in person.

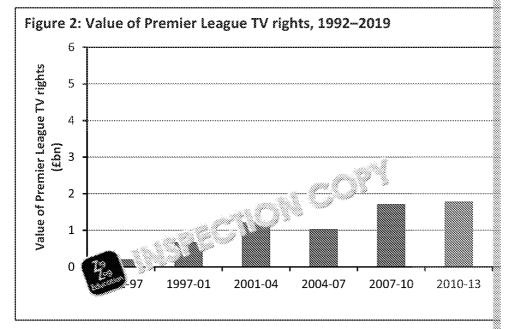
Liverpool experienced this first hand in February 2016, when they increase expensive tickets from £50 to £77. Over 10,000 Liverpool fans walked out in protest – so Liverpool's owners reversed the decision.



The proportion of a club's revenue that comes from ticket sales varies: Living increasing the price of tickets seems like a guaranteed way of increasing releft unsold for Premier League clubs). Although this figure is often lower City's is around 7%), it still represents a valuable source of finance.



However, fans have argued that since revenues from TV deals are increasing Figure 2 shows that the value of televised football has increased significant



For 2016–19, Sky and BT both increased their bids for the TV rights significant to claim the market.

Given this windfall for clubs, some argue that it is only fair that this transless But from a purely economic motive, clubs might be tempted to stick with demand for tickets will stay strong, and that it could give them a competitive

Use the data

- (a) According to standard economic theory, are Premier League tickets printed equilibrium market price?
 - (b) In this case, which of these are true?
 - There is an excess of supply over demand
 - ii. There is an excess of demand over supply
- Why do you think ticket prices are so much higher for Arsenal, West Ham, Control other clubs? (Hint: you need to know where these clubs are located to answer.)
- 3. In economics we usually assume that firms aim to maximise profits. Do you football clubs?

Test your knowledge...

- 1. Suppose a football club increase that it is supprices by 20%, and demand for the
 - (a) Calculate the price of City of aemand.
 - (b) What does the suggest about the elasticity of demand for football
- 2. Explair factors determine the degree of PED. Which do you think is mo
- 3. (a) Draw the market for football tickets using a demand and supply diagraminelastic and demand is relatively inelastic.
 - (b) Using your diagram from part (a), show the effect of an expansion in the the market for tickets.

Extended-response question

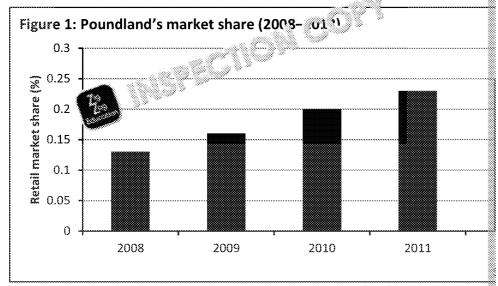
1. Discuss the argument that clubs should increase prices to the market equili



Organic food vs Poundlan

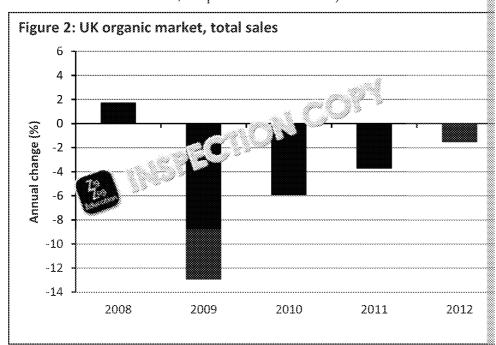
This case study requires knowledge of the topic 'Elasticity'.

The global financial crisis of 2008 caused a recession in the UK. People's in on consumer spending. This created winners and losers in the business was the discount retail market, as people adjusted their shopping habits to Poundland is a prime example: between 2008 and 2013, its total sales jumps Figure 1 shows Poundland's changing share of the total retail market over market was worth £360bn):



Interestingly, the performance of Poundland (and other discounters such a have stayed strong long after the economic recovery. This could indicate a perhaps a feeling among households that incomes haven't recovered sufficient

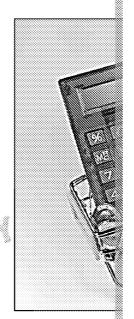
In contrast to the discount retailers, purveyors of pricier products have has shows the changes in total sales of organic produce in the UK between 200 sales in 2014 were £1.86bn, on par with 2009 levels):





The UK organic market was hit hard by the recession, recording four consecutive years of negative sales growth. That trend does seem to be reversing now though, and many analysts are confident of strong growth in the coming years.

Notably, the organic markets in some other countries were not as badly affected: Germany and France saw consistent growth in the organic market, despite the global recession. This is partly due to different consumer tastes (in France, almost 9 out 10 people consume some organic products), but also due to larger-scale production in these courses. In the UK, rising demand for organic people was yet to be met with increased domain. It pays.



Use the data

- 1. Using the information in the article, calculate Poundland's share of the retain
- 2. What would you expect the income elasticity of demand for Poundland's pr
- 3. Why might consumers be happy to continue shopping at discount retailers ev

Test your knowledge...

- (a) Suppose consumer incomes fell by 5% in 2009. Using Figure 2, calculate elasticity of demand for organic produce.
 - (b) Explain whether your answer to part (a) is also true for France.

Extended-response question

 Assess the likely impact of a significant rise in consumer income on the mark organic goods.



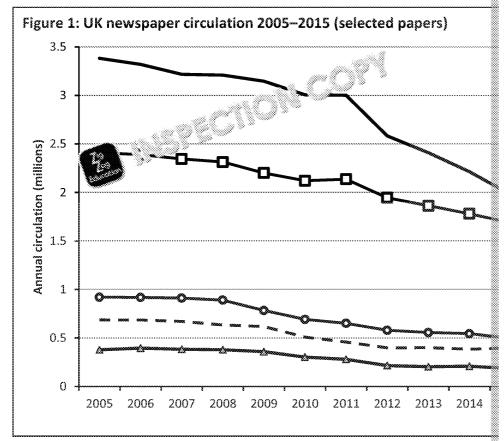
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Online news vs print new

This case study requires knowledge of the topic 'Elasticity'.

The news market has been reshaped dramatically in the past few decades news services. As online news has grown, newspaper circulation in the UN Figure 1:



All of these papers offer online news as well as print news. Some of them require a subscription to access the rest (*Daily Telegraph*, *The Times*). This was successfully by *The New York Times* in the US. Others post their content for advertising revenues to fund it (*Daily Mail*, *The Guardian*, *The Sun*). The for Andrew Miller, explained in 2013 that they would not be implementing a build up a digital audience first.

So if free digital news is so abundant (particularly lim the BBC, which is government funded), which is particularly limited and particularly limited and particularly limited and particularly some arguments to suggest that online news and provide suggest are not perfect substitutes.

Firstly, some ontent is quite exclusive or technical (e.g. *Financial Times, The Economist*) and cannot be easily accessed for free – so it would make sense that the print versions (or the paid online services) of these types of publications have been protected. Also, some consumers do not have access to the Internet and cannot swap their paper newspapers for online services.



There is also some evidence that readers who use actual newspapers retain who use online news. For one thing, in paper newspapers it is easier to esstories (i.e. more important news stories come nearer the front of the paper news, since most news items are stand-alone, it is harder to determine the online news services are more likely to break up their articles with adverts another page – both of these could weaken the reader's concentration.

Ultimately, some readers just prefer reading something on paper than read who prefer hard copies of books to digital versions. As such, the print new alive and well for the foreseeable future.

Use the data

- 1. State two goods that you kake a stronger substitutes than online news are
- 2. Look at e sign type of newspaper has declined more in recent year or broads?
- Using Figure 1, estimate the decrease in the total circulation of the five new and 2015.
- 4. Based on the article, why might some publications be better off using a pay.

Test your knowledge...

- 1. (a) State the formula for cross elasticity of demand.
 - (b) Suppose the cross elasticity of demand between online news and print of print newspapers increased by 6%, calculate the change in demand to
- 2. Using the article, explain two reasons why the online news and print newspa

Extended-response question

 Assess the extent to which a fall in the price of tablets/e-readers would affe online news.







China's Pollution Problem

This case study requires knowledge of the topics 'Market Failure and External

Market failure occurs when the interaction of market forces allocates scarce is, when resources are not allocated to their most socially optimal ends. Market failure is the existence of monopolistic or oligopolistic market demerit and merit goods, etc. Yet, when we're analysing the economic important source of market failure is the existence of negative externality environment provides economies with essential resources for the production materials by economic agents can often contribute to environmental damage aware that burning fossil fuels emit are producted to their most socially optimal ends. Market failure is the existence of negative externality environment provides economies with essential resources for the production materials by economic agents can often contribute to examine the example of the existence of market failure is the existence of negative externality environment provides economies with essential resources for the production materials by economic agents can often contribute to example of the existence of negative externality environmental damage aware that burning fossil fuels emit a provide gases which damage the environmental defence against here.

However, perspectives on environmental damage differ from the environmental state. Not because economists don't care about the environmental land (and its fruits) is one of the crucial factors of production – but because the imposed on external stakeholders. For instance, Nicholas Stern (a famous Brito the Royal Economic Society suggested that 'the problem of climate change of markets: those who damage others by emitting greenhouse gases generally

Figure 1:

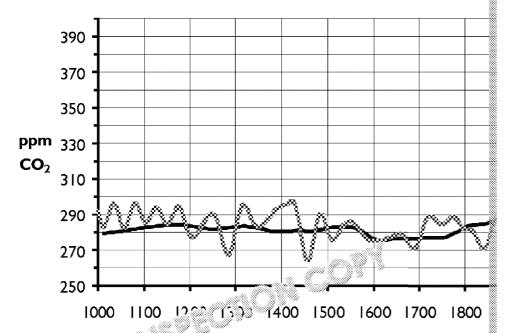
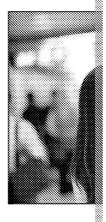


Figure 1 g all pepresents the effects of climate change on atmospheric measured is per million (ppm)) and temperature (dotted line; measured CO₂ emissions and global temperatures have clearly risen over the past millions marked during the last century as many of the world's economies have and industrialised (notably because of the prevalence of globalisation).



One such economy is China. The process of China's modern industrialisation began in 1978 when President Deng Xiaoping began the reformation of the Chinese economic system from that of a centrally planned economy to one that is (at least partially) market-based. Since then, China's rate of economic growth has been extraordinary and it has now become the world's second-biggest economy. China's industrial revolution, however, has come at a substantial environmental cost, and it is now home to some of the world's most polluted cities.



Pollution constitutes one of many environmental so sin China and is a seconomy as it is suggested that as many 6 million Chinese citizens die of breathing in polluted air when a China's capital, Beijing, residents are indoors by official China environmental regulation agencies because polluthreat to the latta. Importantly, the negative effects of Chinese industrial China alone andeed, the entire international community feels these effects

However, while most Western economies have taken preventative measure pollution and environmental degradation, the Chinese have been a little mondeed, China's environmental policies have been criticised because they denvironment. Despite some efforts being made to curb environmental three economic growth is still the primary objective for the Chinese government unfortunately must take a back seat for the immediate future. But, with the reached in late 2016, can the world afford to wait?

Use the data

- (a) Using Figure 1, calculate the percentage increase in atmospheric CO₂ commillennium.
 - (b) Using Figure 1, what was the level increase in temperature over the las
- 2. Imagine that industrial producers (including China) had internalised the extenses. How would Figure 1 change?

Test your knowledge...

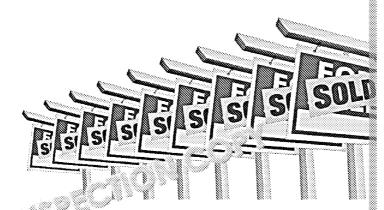
- (a) What is a 'negative externality'?
 - (b) Show this diagrammatically.
- 2. Using a Kuznets curve, explain the rate hip between environmental deg development. Where we 'rayou to see China on this curve?

Extende sponse question

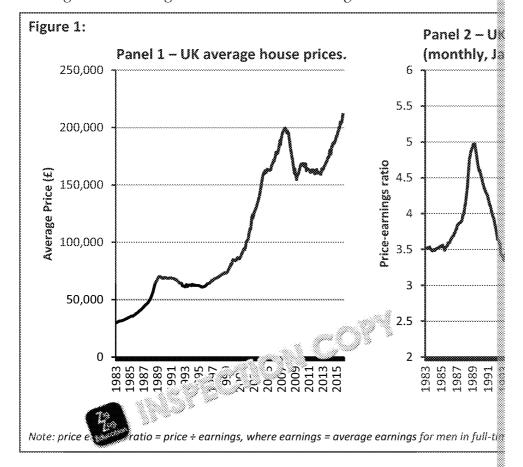
 Evaluate a potential policy response that the Chinese government could ma pollutant effects of industrialisation. Is it possible that government failure m 

The UK housing market: pulling up t

This case study requires knowledge of the topics 'The Basic Economic Problem' a



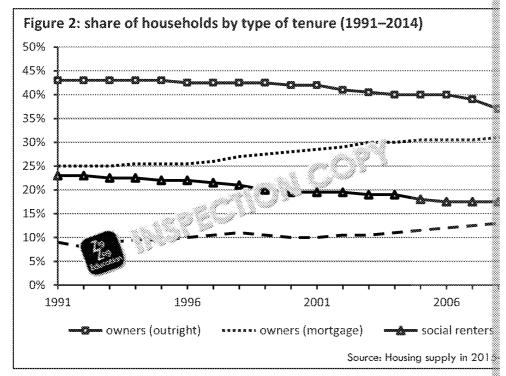
Why are home with UK so high? In popular areas such as London price range were on average salaries. Ceteris paribus (other things being rising naturally due to changes in the population: via ageing and immigrated of people living alone. However, the main cause of the soaring prices is a In a speech in November 2015, George Osborne (the Chancellor) described housing as one of 'the great social failures of our age'.



One problem is the lack of skilled workers in the housing industry. Althoucontributed strongly to the construction sector, there is an acute shortage oplasterers, bricklayers and electricians. This has been blamed on a culture these and vocational training in general are seen as second-rate, even thou rewarding and valuable for the economy. A second barrier to expanding belt' system that protects the countryside from urbanisation: this is highly



The excess of demand over supply has made it much harder for young peoladder. More young people in their 20s are staying with their parents or rechange in the composition of housing tenures over time:



As social rent housing and outright home ownership have declined, privation own a home (via a mortgage) has increased.

Government policy on this issue has included the 'help to buy' scheme, we financial assistance from the government, in the form of a loan. The governelax planning rules, allowing 200,000 homes for new buyers to be built by (with capped prices to make them more affordable). Since homes are by famost people will make in the UK, making these policies work is of parameters.

Use the data

- 1. Look at Figure 2. By how much did private renting change between 2001 ar
- The two panels in Figure 1 show that both the average price of a home and increased in the last few years. What can you infer about average earnings

Test your knowledge...

- 1. Is George Osborne's statement is a paragraph positive or normative?
- 2. What is meant by 'a security emiciency'? How does it differ from 'productive
- 3. (a) E. A. h. h. is meant by a negative externality.
 - (b) Howard negative externalities arise from the building of new houses
 - (c) Show this using a diagram.

Extended-response question

Discuss whether the government's policy to relax planning rules and build not for the UK.





Should the government tax su

This case study requires knowledge of the topics 'Externalities', and 'Government'

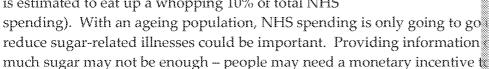
The government taxes certain products because they are deemed damagir. examples in the UK include tobacco and alcohol, which have well-known health when consumed in excess.

Figure 1: Current UK tax rates on tobacco and alcohol (not including VA)

	Tobacco		
Cigarettes	16.5% of retail price plus £3 🙈	Beer	ſ
(pack of 20)	10.5% of retail price plus	(2.8%–7.5% ABV)	L
		Wine	
Hand-rolling tobacco	್್್ 4 ೧೯೯೭⊃g packet	(still 5.5%-15% ABV)	
		Spirits	

In 2014–2015, the government raised £10.5 billion from alcohol and £9.6 billion from tobacco - together these account for around 4% of total government tax revenue (almost as much as taxes on fuel). Taxes on these sorts of products serve a dual purpose: firstly to reduce consumption, and secondly to generate tax revenue.

The government is reviewing whether to add sugar to the list of goods it taxes. The argument is that excessive consumption of sugar leads to greater strain on the NHS, particularly through conditions such as diabetes (which is estimated to eat up a whopping 10% of total NHS



However, this would almost certainly be an unpopular measure since – ri such a large part of many people's diets. The government would think tw sugar tax, as they risk being seen as running a 'nanny state' and potential possible compromise would be to tighten the requirements on the amount sugary drinks can contain.

The real question economists have a larger is how effective different me sugar consumption.





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Use the data

- Suppose the price of a pack of 20 cigarettes is £8. Calculate the proportion (assuming no VAT).
- 2. Are there any dangers of having high rates of tax on cigarettes?
- 3. How much tax would you pay for half a litre of 4% ABV strength beer?

Test your knowledge...

- 1. What kind of market failure do goods such as tobacco and alcohol create?
- 2. Suppose that a higher tax rate increases the price of along old by 5%, and der
 - (a) Calculate the price elasticity of demand.
 - (b) Is this elastic or inelastic?

Extended-response a section

1. Discussion of sugar answers of introducing a tax to reduce consumption of sugar answers.



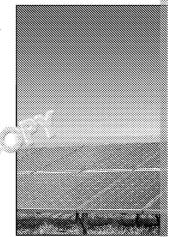


Solar panel subsidies

This case study requires knowledge of the topic 'Government intervention'

One of the ways a government can intervene in markets is through subsidies. The idea is usually to help nurture an industry of strategic importance, or to ensure the supply of certain goods and services.

Recently there has been controversy over cuts to solar panel subsidies in the UK. In December 2015, the government announced it would cut the FIT (feed-in tariff by almost two-thirds, and the post of £100m a year. The FIT scheme unusual form of subsidy: it



pays households (via energy suppliers) for electricity generated by solar p kilowatt hour (kWh). Following the cut, this has fallen to 4.39p per kWh: to be even higher at 84%, but it was changed following criticism. People w before the cut will still benefit from the higher rates.

The government's argument was that subsidising the scheme was costing (estimated at £7 per household each year), since improvements in technologistalling a solar panel system to drop significantly over the past few years £5,000–8,000). The government acknowledges that cuts to the system are 1 the industry: between 9,700 and 18,700.

The announcement has been met with fierce criticism by environmental grecoincided with the Climate Summit in Paris) and others. They argue that a enough to operate without support, and point out that fossil fuel industries larger subsidies.

In the UK, subsidies for fossil fuel producers (often in the form of tax break averaged \$9bn (roughly £6bn) in 2013 and 2014 according to the Overseas tank. The bulk of these subsidies come in the form of tax relief for the cost decommissioning oil rigs. Subsidies are set to increase, the idea being that consumers.

There are concerns about the UK's all is to meet its environmental targets UK's aviation industry all as a concerns an estimated £10bn a year in fuel aviation being vices around as the most polluting form of transport.

Fossil fuel standies are considered particularly harmful in developing conconsumers see little or no benefit (since so few own cars or home appliance and Indonesia are scaling back these types of subsidies.

Figure 1: Subsidies for fossil fuel industries, G7 countries

Country	Canada	France	Germany	
National Subsidies (annual average, \$bn)	2.7	0.125	2.8	

Note: recent changes to UK policy (increases in subsidies) are not captured here.



Use the data

- Assuming that there are 25 million households in the UK, calculate the followin the article:
 - (a) Find out the estimated total cost of the subsidy per year (before the cu
 - (b) How much more is this than the new cap on spending?
- 2. Look at Figure 1. How do the UK's fossil fuel subsidies compare with the ot
- 3. Using the information in the article, what would be the value of the solar pa original 84% planned cut had gone through?

Test your knowledge...

- 1. Explain two disadvantages of using subsidies,
- 2. Name one way other than subsidies in the government could encourage

Extended-response question

1. Evalua factor increasing subsidies on solar panels.





A minimum price for alcoho

This case study requires knowledge of the topic 'Government intervention'.

Consumption of alcohol has negative externalities (it is a demerit good). To alcohol consumption is less than the current level of alcohol consumption

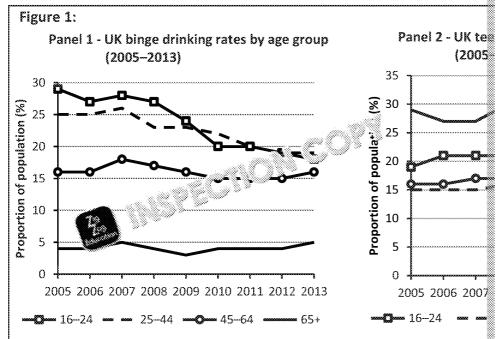
Alcohol is already taxed (see Figure 1 in Sugar case study), but the Scottisk want to go further and introduce a minimum price for alcohol to curb exce

In 2012, the Scottish Parliament passed legislation of would impose a minon alcohol. This would mean, for example that a wo-unit pint of cider or have to cost at least £1 and a litrage of powedka at 40% ABV would have since proposed a 50p to go well. The idea is that this would reduce heaviest drives (we likely to choose very cheap alcohol).

In England, David Cameron considered the idea of a 40p minimum price, but grounds that there wasn't enough evidence that it would reduce consumption in Scotland have gone further: the Scotch Whisky Association (SWA) challers grounds, arguing that it would restrict competition between producers and

After some deliberation, the European Court of Justice (ECJ) argued that there were other measures that could achieve the same result without rest matter is not yet completely settled, it has returned to the Scottish courts to be successfully argued that the policy is the best way to target heavy drink (possibly in conjunction with higher existing taxes).

The statistics in Figure 1 suggest that people in the UK are gradually mode. The average number of people who drink no alcohol at all (teetotallers) in between 2005 and 2013, while the average number of binge drinkers fell from the statistics of the statistics of



Participants were asked about their drinking habits in the past week. Binge drinking is counted as or six units (for women) on a single day. Men tend to binge drink more than women (18% of men



Nevertheless, since alcohol contributes so much to health problems in the UK (in Scotland the cost has been estimated at around £900 per adult), there may well still be a case for introducing a minimum price. The economic arguments around this issue are important. If economists could accurately predict how different government policies on alcohol would affect consumer behaviour, it would be much clearer whether the policies would be good ideas or not.



Use the data

- 1. The passage states that with a minimum price of Top per unit, a one-litre bottom would cost at least £20. With a minimum price of 40p per unit, what would bottle of 44% strength will 17?
- 2. In your on sigure 1 suggest that we should be concerned about h
- 3. Look at 2. Which age group recorded the greatest increase in teetot

Test your knowledge...

1. Show the effect of imposing a minimum price on alcohol using a demand an

Extended-response question

1. Evaluate the effectiveness of imposing a minimum price on alcohol to reduce

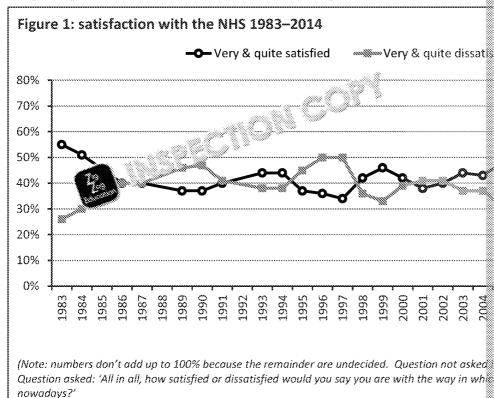




Reforming the NHS

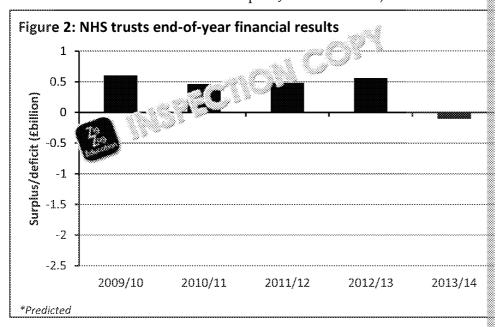
This case study requires knowledge of the topic 'Government intervention'. The

In the UK, if any of our institutions is a sacred cow, it is the NHS. The vast the principle that healthcare should be free at the point of use.



Despite this, there are concerns about the sustainability of the NHS in its of government spending each year goes towards the NHS, and with the ageing rates of obesity in the UK (already the highest in Western Europe), the trise unless economic growth increases just as rapidly or government policy.

Figure 2 shows how well (or poorly) the NHS has met its budget requirement The figure for 2015/16 is somewhat alarming (especially since it is a relative deficit of £0.93bn was recorded for April–June 2015 alone).





This could be partially explained by a slowdown in government spending on the NHS (which has risen in real terms every year since 2011, but only very slightly), as part of the more general cuts to public spending. Another explanation is the difficulty of recruiting staff, meaning that more had to be spent on agency workers to plug the gap. However, many commentators are beginning to think that the underlying model is unsustainable.



This deterioration in the NHS's finances has coincide with the ongoing row about junior doctors' connects. If an agreement can may struggle even more to maintain and an attention and keep up regular.

So what potential referenced be introduced to combat these problems, obvious referenced (e.g. clearing out superfluous layers of management) have

One option could be to introduce a small charge for visits to the GP. This sand missed appointments (the average person has about five GP visits per revenue for the service. Another possibility could be to cut down the care problems are deemed to be their own fault, e.g. smokers. This would save moral objections to this course of action. Another idea is to integrate proviservices with care services for the elderly or disabled, which are currently Streamlining the interactions between these two services could lead to big

Alternatively, the government could simply raise taxes. If the public wish the current standards of service, this may be inevitable, given the increasing

Use the data

- 1. Suppose total government spending in 2015/16 was £750 billion. Using the and Figure 2, calculate the size of the NHS's deficit as a percentage of its total
- 2. (a) The article states that the NHS recorded a deficit of £0.93bn in April–Julis likely to be higher or lower than this for Jan–March 2016?
 - (b) Given this, does the prediction of a £2.2bn deficit for 2015/16 seem like underestimate?

Test your knowledge...

- 1. Using Figure 1, describe the trends at staction between 2000 and 20
- Define the term 'governous figure'.

Extende sponse question

 Discuss the effectiveness of introducing a £5 charge for visits to the GP, using failure.



Answers

Mark scheme: extended-response questions

10 marks

		Knowledge (2), application (2) and analysis (2)
	0	No relevant answer given.
Level 1	12	A few concepts may be identified correctly, but inconsistently, and with behind the causes and effects.
Level 2	3–4	Some knowledge of economic concepts is shown, partially linked to the skills, but may focus too much on one side of an argument.
Level 3	5–6	Knowledge of the economic concepts is very accurate. Links to the que examples. Analysis is well reasoned and logical appropriate for the
	0	Eý <u></u> ਨਹ ਜ (4) No evaluation.
Level	1–2	Limited attempt a valuation — may be only loosely related to the quest reasoning.
Level 2	3-	cum 2, Jaianced evaluative comments are made, supporting a round the question.

15 marks

		Knowledge (3), application (3) and analysis (3)
	0	No relevant answer given.
Level	1–3	A few concepts may be identified correctly, but inconsistently, and wi
1	1-3	thought behind the causes and effects.
Level	46	Some knowledge of economic concepts is shown, partially linked to the
2	4-0	reasoning skills, but may focus too much on one side of an argument.
Level	7-9	Knowledge of the economic concepts is very accurate. Links to the qu
3	/9	examples. Analysis is well reasoned and logical, and appropriate for t
		Evaluation (6)
	0	No evaluation.
Level	12	Limited attempt at evaluation – may be only loosely related to the qu
1	1-2	reasoning.
Level	- A	Clear evidence of evaluative comments, though they may be unfairly
2	3-4	argument. Reasoning / supporting evidence is provided but may be in
Level	c- c-	Accurate, balanced evaluative comments are made, supporting a rou
3	5–6	directly to the question.

20 marks

		Knowledge (4), application (4) and analysis (6)
	0	No relevant answer given.
Level	Level 1–3	A few concepts may be identified correctly, but inconsistently, and wi
1	1-3	thought behind the causes and effects.
Level	4–6	Some knowledge of economic concepts a seewn, partially linked to the
2	4-0	basic reasoning skills.
Level		Good knowledga ा रोति विकास economic concepts is displayed, link
3	7–10	evidence ည ျား ကို main arguments. Analysis is well developed,
,		id gument.
Level	11	nowledge of the economic concepts is very accurate. Links to the qu
4	11-	examples. Analysis is well reasoned and logical, and appropriate for t
		Evaluation (6)
	0	No evaluation.
Level	1–2	Limited attempt at evaluation – may be only loosely related to the qu
1	1-2	reasoning.
Level	2.4	Clear evidence of evaluative comments, though they may be unfairly
2	34	argument. Reasoning / supporting evidence is provided but may be in
Level	г с	Accurate, balanced evaluative comments are made, supporting a rour
3	5–6	directly to the question.



Case Study 1 - Innovation at Ford

Data response questions

- 1. (a) 102.29%
 - (b) 61.4%
- 2. VW's profit fell massively as a result of the emissions tests scandal in September 20
- One of the big disadvantages of specialisation is that workers get fatigued / bored of over again. Ford tackled this by offering very high wages, encouraging them to main that there are other disadvantages of specialisation, but this is the one that relates

Test your knowledge...

Your PPF should show a pivot outwards of the PPF as shown. goods
1 mark for labelling axes correctly, 1 mark for showing initial
PPF, 2 marks for showing pivot out (1 mark if you showe parallel shift out – right idea but not quite correct active question assumes production increase for you have automobile industry).

Number of other goods

Price S_1 S_2 P_1 P_2 D_1 Quantity

 You should show a shift to the market price and higher quantit labelling, 1 mark for showing shi initial equilibrium and one mark

Extended-response question

In this case, one advantage of specialisation is that teachers should become experts
teaching it all the time. After several years of teaching, a teacher should be familial
and be better able to tackle them than if they covered a wide range of subjects.

However, it could be argued that teachers may lack a certain breadth of knowledge for them to make important links between subjects (after all, different subjects are Furthermore, it is possible that specialisation would make a teacher tired of their sut the same things year on year. It is also possible that teachers may get overly attack (e.g. in economics, new developments occur regularly) — but this could also be true.

Another disadvantage of not specialising teachers is that it might be hard to recruit different subjects: teaching could be of a lower standard in a teacher's less-preferred

Case Study 2 - Black gold

Data response questions

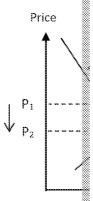
- 1. At the start of 2014 the price was just under \$100 a b (30 a) \$98), and at the start under \$40 a barrel (around \$37). This is a fall of (00 d 2% [(98 37) ÷ 98]. 55–70
- 2. In the short run, we assume 'the constitution's can't change their habits quickly (e.g. the of transport from a cance of transport from a cancel of transport fr

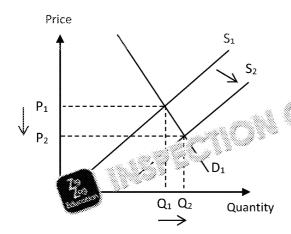
Test your knowledge...

- Scarcity is essentially the fundamental economic problem. It refers to the problem only limited resources to satisfy those wants. (1) Therefore, individuals must make to satisfy given these limited resources. (1) Note that the problem of scarcity is paranatural resources these are non-renewable and so usage of them makes them income.
- 2. Renewable energy is a substitute for oil in many cases, so a growing interest in the expected to reduce the demand for oil. (1)



3. (a) This diagram should show a shift to the left in demand, resulting in a fall in price and quantity. 2 marks for correct labelling, 2 marks for showing shift correctly.





 This diagram should show resulting in a fall in price marks for correct labeling correctly.

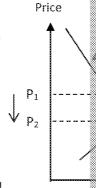
Note that in these diagrams dinelastic, but this is not necessi

Extended-response question

 Renewable energy is an alternative source of energy to oil, so in economics terms we call it a substitute. Since the price of this substitute has fallen, demand for oil will shift to the left, as shown.

The shift in demand reduces the quantity and price of oil in the market. There are some additional points you could make for evaluation marks:

- There might be a time lag between the introduction of this new technology and a change in demand for oil; it takes time to switch between the two types of energy sources.
- Demand for oil might become more price elastic, since there is now another viable substitute good.
- The size of the change in demand depends on how cheap and clean the new technology is.



Case Study 3 - The UK dairy market in decline

Data response questions

- 1. The three functions are: rationing, incentive and signalling.
- At its peak the price of milk was just under 35p per litre (say 34.5p). By Dec 2015, to
 The percentage change is: ((34.5 24 ÷ 34.5) * 100 = 30% fall in price (accept 27–3)
- 3. This statement might be partially true, but the number of producers is not the examples of why this statement might not hold in sales:
 - The number of dairy farmers may the guarafthe remaining farmers increase will not rise
 - If people's demand المراقبة fall in the num
 - If support from from from milk producers remains high, prices may not increase

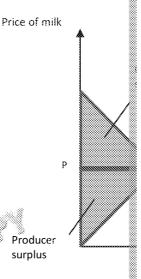
Test your know

- 1. (a) Consumer surplus is the difference between consumers' total willingness to paractually pay for a good. (1)
 - (b) Producer surplus is the difference between the amount producers would have and the price they actually receive. (1)





(c) Your diagram should look something like that on the right. (Note: your supply and demand curves do not have to reach the axes, but it makes it clearer to show consumer and producer surplus.) 1 mark for labelling axes, 1 mark for demand and supply diagram with equilibrium, 1 mark for correctly identifying consumer surplus, 1 mark for correctly identifying producer surplus.



Price of milk

P1

P2

Q

Quantity of milk

2. Your diagram so the left: price so quantity may had unchanged, as size of the shifts answer you musequilibrium from 1 mark for label 1 mark for shift equilibrium.

- (a) Factors that shift demand can include: changes in disposable income, changes
 expectation, changes in price of substitute and/or complement goods, changes
 changes in the number of consumers.
 - (b) Factors that shift supply can include: changes in the cost of production, changes changes in technology, changes in producer's capacity, changes in the supply of taxation, changes in subsidies, natural factors (e.g. climate).
 (1 mark for each factor listed, up to a maximum of 2 marks per question)
- 4. Possible variable costs could include: cost of food for the cows, utility bills (this could the type of tariff), transport costs, and labour costs. Fixed costs (costs that do not cost of land, utility bills, and cost of certification (e.g. for organic farmers). Some condepending on the situation (e.g. cost of buying cows might be fixed or variable). 1 type of cost.
- 5. Since the demand curve is equal to the average revenue council, this suggests that relatively flat. (1) In other words, average revenues follows gradually as output income.

Extended-response question

1. There's no right answer is a second the one hand, it might be bad for milk producers substitute the price is higher – this could be an indication that our demands the other it would indicate a gap in the market – if dairy farmers can create a your average milk (in terms of taste, quality, etc.) then consumers may be willing to answer should look at both sides of the argument.



Case Study 4 - Football ticket prices

Data response questions

- 1. (a) The tickets are below the market price.
 - (b) (ii
- 2. These clubs are based in London, where living costs are much higher than the rest of charge higher ticket prices.
- 3. There is no right answer to this. If clubs were profit maximisers, we would expect the (although arguably they already are high). However, they may anticipate that charge fans, leading to lower profits in the long run, so perhaps keeping prices relatively low Alternatively, some clubs may genuinely care more about the welfare of their fans than maximising their profit. It probably depends on the club in question.

Test your knowledge...

1. (a) $PED = \frac{\%\Delta QD}{\%\Delta P} = \frac{-4}{3}$

or 🦠 mark for answer.

- (b) Si va 32 is between 0 and -1, this indicates that de inelastic. (1) (Note that PED = 0 is *perfectly* inelastic; PED = 1 is *unit* elastic; PED > 1 is said to be *elastic*)
- 2. The factors which affect the degree of PED are:
 - The availability of substitutes e.g. if there is something that is a close substitute to a certain good, one would expect the good to exhibit elastic demand. (1)
 - (ii) Whether the good is a 'necessity' e.g. if something is a necessity, changes in demand (inelastic); but, if something is a luxury, a change in price will affect de
 - (iii) Share of good in overall expenditure e.g. if something makes up only a small are less likely to affect demand. (1)
 - (iv) Time period e.g. in the short-run demand is likely to be inelastic; in the longeasily change consumption preferences and break habits. (1)

There are very few (or, no) substitutes for one's favourite football club – this is likely the inelasticity of demand to changes in a club's ticket price. (1)

- (a) Your diagram should look something like this.
 1 mark for labels, 1 mark for inelastic demand curve, 1 mark for perfectly inelastic showing the equilibrium price and quantity.
 - (b) Your diagram should show a shift to the right in supply, resulting in a fall in price and an increase in quantity.

Extended-response question

1. The argument from the football clubs' perspective could be that increasing ticket prices will increase revenues, allowing the club to invest for the future (e.g. buy more players, expand youth programme, expand stadium size, etc.). Furtherr ore at the market equilibrium level, all of the tickets should be sound to should be explained as ficient.

This argument seem has writen applied to normal markets, but you could be seem to work in this case: as Liverpo eriënce shows. The price rise might lead to a backlash from fand mo might not buy tickets even if they could as a protest (higher ticket prices could be regressive, i.e. unaffordable to lower-income fans). The solidarity of fans is one way in which this differs from a normal massume that each participant acts individually, and that they are not concerned with

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 P_1

Price

Case Study 5 - Organic food vs Poundland

Data response questions

- Figure 1 shows that Poundland had a 0.28% share of the retail market in 2013, and value of the retail market in 2013 was £360bn. Therefore, Poundland's market shall (rounded). Answers from 0.95–1.05bn are acceptable.
- Poundland's products are likely to be inferior goods (i.e. after a fall in income, demincome elasticity of demand should be negative.
- 3. There is no right answer to this: there are many possible explanations. One could be discount retailers found that they were happy with the quality of these goods, and this way. Another could be that the end of the recession hasn't seen incomes rise suchange their habits.

Test your knowledge...

1. (a) $YED = \frac{\%\Delta QD}{\%\Delta Y} = \frac{-12.9}{-5} = 2.8$ is rk for formula, 1 mark for answer – s

from the graph). (1) this means that organic produce is a luxury got falls.

(b) Ti true for France, since the article states that there was consistent growthe sion (i.e. demand increased despite a fall in income), so organic productions

Extended-response question

- Your answer should first note that demand for discount goods would be expected to and demand for organic goods would be expected to rise (since they are luxury good ways in which you could evaluate this answer:
 - The passage states that discount retailers such as Poundland have continued to recession. This may indicate that consumers are favouring these discounters (change in tastes). However, you could also argue that a significant rise in incontinuous.
 - The change in the market for organic food will also depend on people's tastes or French consumers, are not convinced that organic food is worth paying mo extra income elsewhere.
 - The answer depends on the size of the increase in income, and whether that is consumers or not.

Case Study 6 - Online news vs print news

Data response questions

- There are any number of possible answers; for example, you might have: Pepsi and branded products (e.g. breakfast cereal), different brands of toothpaste, different for
- Tabloids (e.g. The Sun, Daily Mail) have declined more than the broadsheets (e.g. The relative terms. There are many possible reasons for this: perhaps online tabloid content, or perhaps the privacy/phone-hacking scandal surrounding The News of the buying tabloids.
- 3. In 2005, the circulation of each newspaper (in descending order) was roughly: 3.4m sums to 7.8m in total. By 2015, the circulations were way m, 1.7m, 0.5m, 0.4m total. This is a fall of around 3m copies, or a 33.5% fall asswers between 2.7m and
- 4. Some news content is easier to some is a subscription, some news content is easier to some resulting to pay for a subscription, sinformation also some some some some subscription, sinformation also some some some some subscription, some news content to some some subscription, some news content is easier to some subscription, sinformation also some subscription, some news content is easier to some subscription, some subscription in the some subscription is easier to some subscription and some subscription is easier to some subscription in the some subscription in the some subscription is easier to some subscription in the some subscription is easier to some subscription in the some subscription is easier to some subscription in the some subscription in the some subscription is easier to some subscription in the some subscription is easier to some subscription in the some subscription in the some subscription in the some subscription is easier to some subscription in the some subs

Test your knowledge...

1. (a)
$$XED = \frac{\%\Delta QD \text{ of } Good \text{ A}}{\%\Delta P \text{ of } Good \text{ B}}$$
 (1)

- (b) Change in demand for online news = $(0.7 \times 6) = (+) 4.2\%$
- Possible reasons: reading print newspapers improves information retention, online with adverts, online newspapers may require readers to click to another page, some reading a paper copy of something to reading online.



Extended-response question

- A fall in the price of tablets/e-readers would make online news more accessible to the 'price' of online news.
 - Based on this, we would expect that demand for online news would go up, and dem (since it is a substitute good). There are several factors which might influence the same
 - The size of the price fall.
 - The extent to which people switch to using tablets/e-readers (i.e. the price elastical)
 - Many people already have laptops or smartphones that they might use to read affected by this price change.
 - Many people will simply prefer print news, regardless of the cost of devices to

Case Study 7 - China's Pollution Problem

Use the data

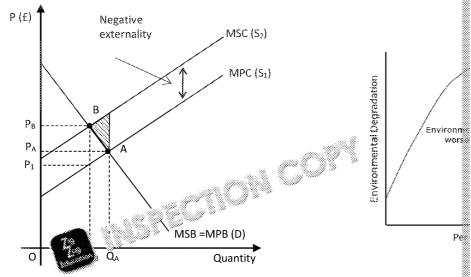
1. (a) In 1000, atmospheric CO₂ concentration was a ppm. As of 2000, this is 380 ppm. Percentage change is given

% Change =
$$\frac{Change}{Original} \times 100$$

- 🤼 🤌 t 🔊 percentage increase in atmospheric CO2 concentration is 35.
- (b) In 2000 average global temperature was about 14.4°C and in 1900 this temperature question is asking for the *level* increase this is simply a nominal change. The
- 2. If producers were to internalise the cost imposed on a third party of their production in their cost of production. Imagine that a manufacturer has to pay for the healthcasto re-fertilise soil destroyed by acid rain, etc. on top of their standard production out substantial. A firm's natural response would be to decrease production to reduce the the graph might appear substantially flatter than in the case where industries don't

Test your knowledge...

- (a) A 'negative externality' is a cost imposed on a third party (or external stakeholic transaction. Producers and consumers are first and second parties respectively an individual, an organisation, property, etc.
- 1. (b) Negative externalities can be represented using the following diagram:

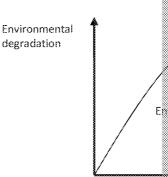


- Diagram demonstrates that the marginal private cost of the production p social cost of production – (MPC<MSC).
- Market equilibrium is found at the intersection of Demand and Supply (N
 given product is being produced and consumed and at a lower price than
- The socially optimal equilibrium is found at the intersection of Demand a price, Ps, reflects the true cost of production and less of the product is commarket. Notice that at this point P=SMC and allocative efficiency is achieved.
- There is a welfare loss (or deadweight loss) to society because the allocatimplies that there are welfare gains to be made by imposing policies that



 The Kuznets curve represents a hypothetical relationship between environmental degradation and economic development.

When income per capita is low, e.g. in an undeveloped economy — there is little environmental degradation because there is little production. However, as economies develop and production industrialises, environmental damage increases at an exponential rate — such economies are primarily focused on economic growth and industrialisation. Yet, at a certain point of development, the environment begins to improve as the government begins to regulate production and citizens begin to prioritise personal and environmental health over material wealth.



China is most likely nearing and on of this bell curve. The Chinese government is be the environment by the continuous continuous the environmental of the continuous continuous

Extended-res uestion

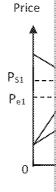
- The Chinese government can choose a policy related to one of the following three s
 - 1. Fiscal Policy, e.g. taxation of pollutant item and/or subsidies for cleaner technol
 - 2. Market-based Incentives, e.g. creating tradeable pollution permits.
 - Regulatory Measures, e.g. fining companies for non-compliance with legal required levels, etc.

Each of these strategy approaches will have associated advantages and disadvantage imposes an opportunity cost on the government, and governments tend to think man Government failures might include: information failure, regulatory capture, uninters which exacerbate, rather than ameliorate, the situation of environmental degradations.

Case Study 8 – The UK housing market: pulling up the ladder?

Data response questions

- In 2001, private renting only made up around 10% of tenures, and by 2014 this had increased to almost 20%. This is a doubling of the share of tenures (or a 10 percent point increase).
- 2. This suggests that average earnings have not changed much over the period (if average earnings had increased in line with house price increases, we would expect the price-earnings ratio to be flatter).



Test your knowledge...

- 1. This statement in normative, since it is a value judgment (even though many would agree with it!) (1)
- 2. Allocative efficiency is a concept which refers to round ct is representing consumers' interests (1); produced only up to the point the consumers equals the marginal round consumers. (1) It differs from productive efficiency consumers allocation of the specific allocation of the specific
- 3. (a) A $e \in \mathbb{R}$ emaility is the cost to third parties that is not reflected in the property (1)
 - (b) Negative externalities could arise from housebuilding via destruction of the na pollution, for example. (1 mark for each)
 - (c) 1 mark for correct axes, 1 mark for showing MSC and MPC (they do not have to showing MPB=MSB, 1 mark for showing how the social equilibrium price and quantity, 1 mark for showing welfare loss.



Extended-response question

 The benefits of this scheme would be that more new homebuyers would be able to should increase the standard of living of those affected, and it may boost economic immobility of labour.

On the other hand, the fact that existing planning rules will have to be scrapped sugexternal costs to building these homes. This could negatively affect the quality of lighter an opportunity cost to this scheme if the government subsidises the low price of in your conclusion, you could be either for or against the policy, so long as your arguments.

Case Study 9 - Should the government tax sugar?

Data response questions

- The tax is 16.5% of the retail price plus £3.79. 16.5% of £8 is £1.32, so the total amente total price (rounded to the nearest whole number).
- 2. Two of the main dangers are: (1) that if people ar action to smoking, their income a rise in imported/smuggled cigarettes that his is tax.
- 3. At 4% ABV, total tax is 18.37 × / / whice per litre. For half a litre, the tax would

Test your knowledge.

- 1. These to go s create negative externalities: this is when the social cost of comprivate metimes these types of goods are called 'demerit goods').
- 2. (a)

(1 mark for method, 1 mark for ans

Price

(b) This indicates that demand for alcohol is inelastic (since -1 < PED < 0) (1)

Extended-response question

 With this question the main point you should discuss is how the price elasticity of demand for sugar will affect the success of the policy. If demand is price inelastic, the diagram should look something like that on the right.

Since demand is price inelastic, the tax increases the price from P_0 to P_t , but quantity demanded only falls a small amount from Q_0 to Q_t , with much of the tax burden falling on the consumer. Since the whole purpose of the tax is to reduce consumption, in this case the tax is ineffective. It may have regressive effects on the incomes of those who consume a lot of sugar.

As an evaluative point, you could argue that the government could use the tax revenue to help fund greater NHS spending.

You should identify that if demand were elastic, then the result would be different: in this case, a tax would significantly decrease sugar consumption (which is the intended effect).

P_t P₀

You may argue that a tax would be more effective if it were combined with other measuch as an information campaign on the dangers of excessive consumption. You may sugar food producers are allowed to use in their food is another complementary measurements.

Case Study 10 - Solar panel subsidies

Data response questions

- 1. (a) According to the article of six saly costs households £7 each, so for 25 million
 - (b) The new cap is a finition, so this is £75 million more.
- 2. The UK pair antily higher subsidies than all other G7 countries except for the considerate the USA's GDP is several times larger than the UK's, so as a proportion most out of these countries.
- The original subsidy was 12.47p per kWh. A cut of 84% would mean that the new si kWh (12.47 – (0.84 * 12.47)).

Test your knowledge...

- One disadvantage is that it can encourage inefficiencies in firms (1), another is that
 of government spending). (1)
- 2. Possible answers include: information provision, funding research into solar panel to increases consumer income (1 mark for correct point).



Extended-response question

The main advantage of increasing subsidies is that it leads to more energy generational avoid most of the negative externalities associated with fossil fuel energy generation negative externality from production diagram).

Another argument in favour would be that even if costs to the taxpayer are higher in lower prices in the long term once the benefits of renewable energy are realised.

You should explain the disadvantages of subsidies you stated in question 2: it may earn opportunity cost involved with the subsidy.

You could mention that the case for subsidising solar panels depends on whether the energy source (you don't need to discuss any of the science behind this: you could such as wind power may be more effective).

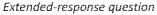
Case study 11 - A minimum price for alcohol?

Data response questions

- 1. This can be broken down into gage () and don't have to be done in this order): if the unit rather than 50p 1 and 40% spirit would have to be at least £16 (4/5 of would be a 22). So the final answer is £13.20.
- 2. This question is very subjective, there's no right answer. You might think that the prohigh, so we should be worried. You might think that the proportion isn't too bad, and (but we can't know for sure whether they will keep falling or not). Of course it's a fair people who drink moderate amounts very regularly, which could be just as damaging
- 3. The 16-24 age group saw the greatest rise in teetotalism; an eight percentage point

Test your knowledge...

Your diagram should show the minimum price imposed above the market equilibrium. (1) This leads to an excess of supply over demand (between Q_d and Q_s). (1) 1 mark for correct axes, 1 mark for supply and demand curves. Note that for this question the elasticities of the curves don't matter.



After discussing the effect of imposing a minimum price (see diagram in part 1), and the fact that alcohol is a good that has negative externalities, the key point you should discuss for this question is the price elasticity of demand for alcohol. Based on the diagram in part 1, if demand is highly inelastic then the minimum price will only lead to a small fall in quantity demanded. If this is the case, the policy is

Price

Excess

Pmin

Pe

Qd

likely to be unsuccessful (more money from drinkers will go to the government in reconsume more than the socially optimal amount).

On the other hand, if the price elasticity of demar we elastic, then demarks will be more successful.

Some other points you could a military who answer include:

- In reality, it is like ും വിവാഴ്ച് groups of people will have different elasticit
- The set of siley will depend on how much higher the minimum price is price demand more, but it would also penalise occasional/mode
- You mention the effect on businesses: it would be good for pubs (who puthe minimum) but bad for supermarkets (who probably charge prices below the SWA's argument: businesses that provide cheap alcohol would have less room usually bad for consumers).
- You could include an externalities diagram, but it is not required.



Case Study 12 - Reforming the NHS

Data response questions

- The passage states that roughly 18% of government spending goes towards the NHS was £750bn, this would be £135bn (0.18 * 750). The deficit was about £2.2bn, which budget (2.2 ÷ 135 *100). Any answer between 1.5 and 1.7% is acceptable.
- (a) It would be expected that the deficit would be higher because Jan-March are more health problems (assuming that NHS budgets are not automatically adjusted).
 - (b) Given this, the £2.2bn seems like an underestimate. If each three-month period add up to £3.72bn for the year: way more than predicted, especially if the win.

Test your knowledge...

- 1. In this period the proportion of people saying they were quite ar very satisfied incre 70% in 2010, before falling slightly. (1) On the other hand are proportion of people fell to a low of around 18% in 2010, before picking up count slightly. (1) (You don't marks: but you must mention whether are 100 ds are going up or down.)
- 2. Government failure is what in a vention by the government results in a net well intervention by the covernment creates inefficiencies / market failures).

Extended-res uestion

Some of the benefits of this policy are already mentioned in the article: it should deappointments or missing their appointments, and it should raise revenue for the NHS for the NHS by reducing pressure on GPs.

However, there are ways in which this policy could introduce government failure. Figure the least problems from going to the doctor, perhaps making their conditions the long run (or causing unnecessary deaths).

You could evaluate this point by arguing that the charge could be means tested (i.e incomes), so that everyone could afford to go to the doctor if they needed to.

Another potential problem would be administrative costs for implementing such a revenues. The administrative costs would probably be higher if the charge were me

You could evaluate the policy by arguing that £5 is too high or too low (e.g. you could multiplying the price by the average number of visits and the size of the population 5*5*65 million = £1.6bn, assuming that the number of visits does not change. Since deficit, you may argue that this is not high enough, or you may argue that it is a goos

A good answer should discuss both the benefits and the costs of the policy, and evaluation





