- 1. Write the name for the SI unit of
 - (a) mass
 - (b) time
 - (c) electric current
- The multiple of mega, M is re.

 Write the multiple



- The submultiple of milli, m, is 10^{-3} Write the submultiple of
 - (a) micro, μ
 - (b) pico, p
- Some SI units are shown.

 ms^{-1} Write the units from this list that are expressed as base SI units.

- 5. (a) Which one of these is a reasonable extingular of the weight of
 - A 0.1 N
 - В 1 N
 - \mathbf{C} 10 N

 - Ach one of these is a reasonable estimate of the kinetic en

(Kinetic energy =
$$\frac{1}{2}mv^2$$
)

- 2 J
- **B** 20 J
- C 200 J
- 2000 J
- 6. Explain the meaning of
 - (a) accuracy
 - (b) precision



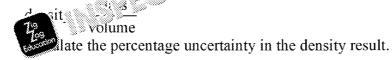




7. A student uses a measuring cylinder to measure the volume of a liquid calibrated in intervals of 1 cm³. The student determines that the volume of a liquid calibrated in intervals of 1 cm³.

- (a) State the absolute uncertainty in this measurement.
- (b) Calculate the percentage uncertainty in this measurement. Give your
- (c) The student measures the mass and the volume of a different liethese measurements are:
 - mass 1.2 %
 - volume 2.6 %

The student uses these the arements to calculate the density of



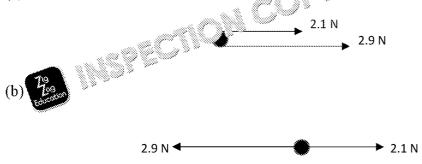
- 8. A student plots a graph and draws a straight line of best fit. The graph The student then draws a line of worst fit on the same graph. The graph Calculate the percentage uncertainty in the gradient.
- 9. Which one of these is a vector quantity?

A mass

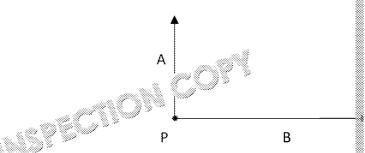
B kinetic energy

C speed

- 10. Explain the difference between distance and displacement.
- 11. State the magnitude and direction of the resultant force in each of the (a)



12. The diagram shows two forces, **A** and **B**, acting at 90° to each other the same plane.



Cop diagram and show how a vector triangle can be used to de Label your resultant force **R**.

You do **not** have to make a scale drawing.

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