

- 4 A metre rule is used to measure the length of a piece of wire. It is found to be 70 cm long to the nearest millimetre.

How should this result be recorded in a table of results?

- A** 0.7 m **B** 0.70 m **C** 0.700 m **D** 0.7000 m

- 5 A quantity x is to be determined from the equation

$$x = P - Q.$$

P is measured as 1.27 ± 0.02 m.

Q is measured as 0.83 ± 0.01 m.

What is the percentage uncertainty in x to one significant figure?

- A** 0.4 % **B** 2 % **C** 3 % **D** 7 %

- 6 A football is dropped from the top of a three-storey building. It falls through air until it reaches the ground.

What remains constant throughout the fall?

- A** acceleration of the football
B air resistance on the football
C velocity of the football
D weight of the football

Space for working