

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