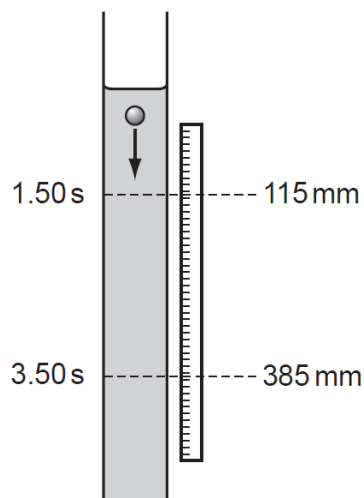


- 1 The diagram shows an experiment to measure the speed of a small ball falling at constant speed through a clear liquid in a glass tube.



There are two marks on the tube. The top mark is positioned at 115 ± 1 mm on the adjacent rule and the lower mark at 385 ± 1 mm. The ball passes the top mark at 1.50 ± 0.02 s and passes the lower mark at 3.50 ± 0.02 s.

Which of the following gives the correct uncertainty in the value of this speed?

- A** 0.01 mm s^{-1} **B** 0.03 mm s^{-1} **C** 2 mm s^{-1} **D** 4 mm s^{-1}