

7 The speed of a car is calculated from measurements of the distance travelled and the time taken.

The distance is measured as 200 m, with an uncertainty of ± 2 m.

The time is measured as 10.0 s, with an uncertainty of ± 0.2 s.

What is the percentage uncertainty in the calculated speed?

A $\pm 0.5\%$

B $\pm 1\%$

C $\pm 2\%$

D $\pm 3\%$

8 A science museum designs an experiment to show the fall of a feather in a vertical glass vacuum