

- 2 The diameter of a wire, known to be 0.28mm at room temperature, is measured with an instrument that gives readings to 0.001 mm.

Readings are taken, at room temperature, at three different points along the wire. Two perpendicular values are taken at each point.

The six readings obtained, in mm, are 0.258, 0.258, 0.258, 0.259, 0.259 and 0.258.

What best describes this set of results?

	accurate	precise
A	no	no
B	no	yes
C	yes	no
D	yes	yes

- 3 The initial density of a substance is $1.2 \times 10^3 \text{ kg m}^{-3}$. The final density of the substance is $1.2 \times 10^3 \text{ kg m}^{-3}$.