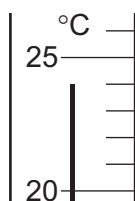


- 4 The diagram shows part of a thermometer.



What is the correct reading on the thermometer and the uncertainty in this reading?

	reading / °C	uncertainty in reading / °C
A	24	± 1
B	24	± 0.5
C	24	± 0.2
D	24.0	± 0.5

- 5 The resistance R of a resistor is to be determined. The current I in the resistor and the potential difference V across it are measured.

The results, with their uncertainties, are

$$I = (2.0 \pm 0.2) \text{ A} \qquad V = (15.0 \pm 0.5) \text{ V}.$$

The value of R is calculated to be 7.5Ω .

What is the uncertainty in this value for R ?

- A** $\pm 0.3 \Omega$ **B** $\pm 0.5 \Omega$ **C** $\pm 0.7 \Omega$ **D** $\pm 1 \Omega$

Space for working