

- 3** A student measures the current through a resistor and the potential difference (p.d.) across it. There is a 4% uncertainty in the current reading and a 1% uncertainty in the p.d. reading. The student calculates the resistance of the resistor.

What is the percentage uncertainty in the calculated resistance?

- A** 0.25%                      **B** 3%                      **C** 4%                      **D** 5%

- 4** A student applies a potential difference  $V$  of  $(4.0 \pm 0.1)\text{V}$  across a resistor of resistance  $R$  of