

**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%

**1** A student applies a potential difference  $V$  of  $(10 \pm 0.1)V$  across a resistor of resistance  $R$  of