

- 2** The resistance of a wire is determined by measuring the current in the wire and the potential difference across it. The following measurements were made. Each measurement had an uncertainty as stated.

$$\text{current} = (2.50 \pm 0.05) \text{ A}$$

$$\text{potential difference} = (2.00 \pm 0.06) \text{ V}$$

The resistance was calculated to be 0.800Ω .

What is the uncertainty in this value of the resistance?

A 0.003Ω

B 0.008Ω

C 0.04Ω

D 0.1Ω

- 3** An experiment to investigate the relationship between two variables, n and c , which are known to