

- 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  $0.800 \Omega$ .

What is the uncertainty in this value of the resistance?

- A**  $0.003 \Omega$       **B**  $0.008 \Omega$       **C**  $0.04 \Omega$       **D**  $0.1 \Omega$

- 3 An experiment to investigate the relationship between two variables  $x$  and  $y$  which are known to