

1 What is the best estimate of the wavelength of green light?

- A** 260 nm **B** 540 nm **C** 780 nm **D** 920 nm

2 In an electric circuit, an ammeter reads $2\ \mu\text{A}$.

In a second circuit, the ammeter reads 1 mA.

How many times larger is the current in the second circuit compared with the current in the first circuit?

- A** 500 **B** 5000 **C** 500 000 **D** 5 000 000

3 A set of repeated measurements is made of a fixed quantity. An average of these measurements is calculated.

What is the effect of averaging on the random error and the systematic error in the measurements?

- A** Random error and systematic error are both reduced.
B Random error and systematic error are both unaffected.
C Random error is reduced but systematic error is unaffected.
D Random error is unaffected but systematic error is reduced.