

- 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.