

- 4** A student uses a digital ammeter to measure a current. The reading of the ammeter is found to fluctuate between 1.98 A and 2.02 A.

The manufacturer of the ammeter states that any reading has a systematic uncertainty of $\pm 1\%$.

Which value of current should be quoted by the student?

- A** $(2.00 \pm 0.01)\text{A}$
- B** $(2.00 \pm 0.02)\text{A}$
- C** $(2.00 \pm 0.03)\text{A}$
- D** $(2.00 \pm 0.04)\text{A}$