

Past-paper walk-through

Limits of accuracy ■ E1.10

eXercise

Questions in this set

- 0580/43 N25 Q25 ■ 3 marks

Reading the mark scheme

- **B1** a mark that stands on its own – the point is either made or not.
- **M1** a *method* mark: the right approach, even if the number is wrong.
- **A1** an *answer* mark, and it usually needs its M mark first.
- **C1** a working mark on the way to the answer.
- **//** separates answers the examiner accepts equally.
- **ecf** = error carried forward: a later part is marked on your own earlier answer.
- **owtte** = “or words to that effect” – the wording need not match.

Question 25

0580/43 N25 ■ Q25 ■ 3 marks

25 Jenna has a length of wire measuring 68 cm, correct to the nearest cm.

From this wire she cuts off two smaller pieces ■ a piece of length 4.7 cm, correct to the nearest mm ■ a piece of length 10.0 cm, correct to the nearest mm.

Work out the lower bound and the upper bound for the length of the wire remaining.

Lower bound = cm

Upper bound = cm

[3] , ,

[3]

Solution 25

Mark scheme

$$LB = 52.7$$

$$UB = 53.9$$

- 3 B2 for answer [LB=] 52.7 or [UB=] 53.9
- or M1 for $68 + 0.5$ or $68 - 0.5$
- or $4.7 + 0.05$ or $4.7 - 0.05$
- or $10[.0] + 0.05$ or $10[.0] - 0.05$. oe seen