

SMART EXAM RESOURCES
STAGE 9 MATHEMATICS
TOPIC QUESTIONS
TOPIC: BOUNDS
SET-2

- 1 Joe measured the diameter of a tennis ball correct to the nearest millimetre.
The upper bound of his measurement was 6.75 centimetres.

Write down, **in millimetres**, the lower bound of his measurement.

Answer mm [2]

MARK SCHEME:

66.5	2 cao	W1 for figs 665 or SC1 answer of $66.5 < LB < 67.5$
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- 2 Another village has a population of 1770, correct to the nearest ten.
Write down the lower bound for the population of this village.

Answer(e) [1]

MARK SCHEME:

| 1765 cao

| 1 |

- 3 The total value of the books sold in January was \$9480 correct to the nearest 10 dollars.
Write down the lower bound for this amount.

Answer(e) \$ [1]

MARK SCHEME:

9475	1	cao
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- 4 Ella's height is 175 cm, correct to the nearest 5 cm.

Write down the upper bound of Ella's height.

..... cm [1]

MARK SCHEME:

177.5	1	
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- 5 The capacity of a jug is 750 ml correct to the nearest 10 ml.

Write down the upper and lower bounds of the capacity of the jug.

Upper bound = ml

Lower bound = ml [2]

MARK SCHEME:

755	2	B1 for one correct or both values reversed
745		

6

The mass of Ahmed's bag is 5 kg, correct to the nearest kilogram.

Write down the upper bound of the mass of his bag.

Answer(b)(ii) kg [1]

MARK SCHEME:

| 5.5 | 1 |