SMART EXAM RESOURCES
CAMBRIDGE LOWER SECONDARY
STAGE 7 TOPIC QUESTIONS
MATHS
ROUNDING-SET-2

1 Ahmed says, '29 is a cube number.'

Tick (✓) to show if he is correct.

Yes [ ]   No [ ]

Explain how you know.

....

....

[1]

MARK SCHEME

No ticked **and** $3 \times 3 \times 3 = 27$ and $4 \times 4 \times 4 = 64$ so 29 is in between or equivalent.	**1**	Accept no **and** $\sqrt[3]{29}$ is not a whole number or equivalent. Accept no **and** the cube numbers are (1), (8), 27, 64 or equivalent.

2   Angelique looks at the numbers from 10 to 90

She says,

'Between 10 and 90, there are 6 **more** square numbers than cube numbers.'

Tick (✓) to show if she is correct or not correct.

Correct ☐   Not correct ☐

Explain how you know.

....

....

....

[2]

Not correct ticked **and** A correct explanation given, e.g. [square numbers] 16, 25, 36, 49, 64, 81 [cube numbers] 27 and 64	2	Award 1 mark for showing [square numbers] 16, 25, 36, 49, 64, 81 **or** [cube numbers] 27 and 64	Accept equivalent correct explanations. Just ticking Not correct without any correct working scores 0 marks.

3   Jamila says, '64 is both a square number and a cube number.'

     Show that she is correct.

                                                                                      [1]

MARK SCHEME

(64 =) 8^2 and 4^3	**1**		Accept equivalent, e.g. (64 =) 8×8 and $4 \times 4 \times 4$ Accept $\sqrt{64} = 8$ and $\sqrt[3]{64} = 4$

4   Write a number in each box to make each statement correct.

$$\sqrt[3]{\boxed{}} = 4$$

$$121 = \boxed{}^{2}$$

[1]

64 and 11	1	Both answers correct for the mark. Accept −11