SMART EXAM RESOURCES CAMBRIDGE LOWER SECONDARY

STAGE 7 TOPIC QUESTIONS

MATHS

UNITARY METHOD-SET-1

A candle loses 22.4 cm of height when it burns for 7 hours.



An identical candle burns for 4 hours.

1

Work out how much height the candle loses.

	cm	[2]

Evidence of a method of dividing by 7 and multiplying by 4. e. 9. • $\frac{4}{7}$ × 22.4 • 22.4 ÷ 7 × 4
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2	In the United States a person's mass is given in pounds. 100 pounds = 45.4 kg A woman's mass is 63.6 kg	
	Convert this to pounds.	
	pounds	[2]
	pounds	

Smart Exam Resources

Saturday and a correct reason relating to the mean or average, e.g. It has the largest mean/ average value.	1	Do not accept Saturday has the smallest range, by itself.	
		1	

3	A train travels at 300 kilometres per hour.

Work out how far the train travels in 25 minutes.

km [1]

These are the instructions on a box of grass seed. 4

> 1.5 kg of seed will cover an area of 48 m²

Wor. Work out the amount of grass seed that is needed to cover an area of 256 m².

kg [2]

	8 (kg)	2	
	a correct complete method e.g.: • 256 + 48 × 1.5 • 256 + 32	M1	
4			

Here are some currency exchange rates.
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1 US dollar = 7.76 HK dollars

1 US dollar = 1.47 NZ dollars

1 US dollar = 1.4/ NZ dollars		
Work out the value of 1000 HK dollars in NZ dollars.		
	NZ dollars	[2]

or truncated to 4sf or better) or 0.189(4)	189.43 (NZ dollars)	2	Allow 189 or 189.4 or 189.43
	 1000 + 7.76 or 1.47 + 7.76	M1	M1 implied by 129 or 128.865 (correctly rounded or truncated to 4sf or better) or 0.189(4)