

Awarding Consortium

PARTNERS IN YOUR SUCCESS

Maths Level 2 Mark Scheme Set 3 - Sample

Task 1				
Question	Process	Marks Awarded	Answer	Mark
1	<p>Calculates complete room or rectangles within</p> <p>Finds answer</p> <p>Calculates and finds bath area OR another rectangle</p> <p>Calculates area to be tiled</p> <p>Finds answer</p> <p>Finds number of tiles in 1 m²</p> <p>Calculates number of tiles required</p> <p>Finds number of tiles required</p> <p>Concludes</p> <p>Checks answer</p>		<p>2.5 x 3.5 OR 2.5 x 1.5</p> <p>8.75 OR 3.75</p> <p>1 x 2.5= 2.5 OR 1x1 = 1</p> <p>answer a – answer c OR answer a + answer c (NOTE: all 3 methods are included in marks a,b and c)</p> <p>6.25 m²</p> <p>4 (2 x 2)</p> <p>answer e x answer f</p> <p>25</p> <p>Yes, 3 packs of tiles will be enough</p> <p>Correctly checks an answer(a,c,d,f,g) by inverse method, estimation or other suitable method</p>	

Task 1

Question	Process	Marks Awarded	Answer	Mark
2	Calculates proportion	1 R	$7 \div 1.5$ OR $29 \div 6.95$ OR TO FIND $1 \text{ m}^2 : 6.96 \div 1.5$ OR $29 \div 7$	k
	Finds answer	1 A	4.67 (2dp) OR 4.17 (2dp) OR 4.64 (2dp) OR 4.14 (2dp)	l
	Makes comparison	1 R/A	$4.67 \times 6.95 = \text{£}32.46$ (compared with $\text{£}29$) OR $4.17 \times 1.5 = 6.26$ (2dp, area covered by Supastik for $\text{£}29$) OR Supastik costs 4.64 per m^2 OR Moreflaw costs 4.14 per m^2	m
	Concludes	1 In	Moreflaw is the best value for money. (note: the capacities of the products are irrelevant)	n

Task 2

Question	Process	Marks Awarded	Answer	Mark
3	Extracts data from graph	1 In OR 2 In	Any 3 from 250, 238, 244, 236, 226 All 5 of above.	a a b
	Finds sum of data	1 R/A	1194 OR answer a added (all 5 pieces of data)	c
	Divides	1 R/A	answer c \div 5	d
	Finds mean	1 A	238.8	e
	Converts	1 R	3 x 60 or 60+60+60 OR 180 seen	f
	Finds time in minutes and seconds	1 A	3 mins 58.8 secs (accept 3' 59")	g
	Compares times	1 In	Liam is third fastest	h
	Calculates average speed	1 R	1500 \div 238.8 (accept 239)	i
	Finds average speed	1 A	6.3 m/s (1dp) Accept 6.28	j
	Concludes	1 In	Yes, he can qualify for the team.	k
4	Calculates no. of times of a top 3 finish	1 R	100 \div 12 OR 7 \div 12 OR 58/100 (as an approximation)	l
	Finds answer	1 R/A	58 \div answer l OR 0.5833r OR 58.33% OR 29/50 (approximation cancelled down)	m
	Rounds answer	2 In	7/12 (7 times top 3 finish)	n o

Task 3

Question	Process	Marks Awarded	Answer	Mark
5	Converts weight	1 R/A	5kg =5000g OR 100g = 0.1kg	a
	Calculates no. of tubes	1 R	$5000 \div 100$ OR $5 \div 0.1$	b
	Finds answer	1 A	50 tubes	c
	Calculates no. of sweets in each tube	1 R	$750 \div 50$	d
	Finds no. of sweets in each tube	1 A	15	e
	Uses formula	1 R	2.5×2.5 OR squared another figure squared with a correct answer	f
	Finds r squared	1 A	6.25	g
		1 R/A	answer f x 3.14	h
	Finds denominator	1 A	19.625	i
		1 R/A	13 x answer d	j
	Finds numerator	1 A	195	k
	Calculates height	1 R/A	answer j \div answer h	l
	Find height	1 A	9.94 cm (2dp)	m
	Calculates no. of tubes per length OR calculates total length OR total tube required	1 R	$60 (0.6m) \div 9.94$ OR 12×0.6 OR 12×60 OR 50×9.94	n
Finds no. of tubes per length OR finds total length	1 A	6.04 (2dp) OR 6 tubes per length 7.2m OR 720cm	o	
Finds no. of tubes available and concludes	1 In	72 AND yes, he has enough tubing.	p	