

Maths Level 2 Mark Scheme Set 3 - Sample

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

	Task 1					
Question	Process	Marks Awarded	Answer	Mark		
2	Calculates proportion	1 R	7 ÷ 1.5 OR 29 ÷ 6.95 OR TO FIND 1 m ² : 6.96 ÷ 1.5 OR 29 ÷ 7	k		
	Finds answer	1 A	4.67 (2dp) OR 4.17 (2dp) OR 4.64 (2dp) OR 4.14 (2dp)	I		
	Makes comparison	1 R/A	4.67 x 6.95 = £32.46 (compared with £29) OR 4.17 x 1.5 = 6.26 (2dp, area covered by Supastik for £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	Any 3 from 250, 238, 244, 236, 226	а	
		2 In	All 5 of above.	a b	
	Finds sum of data	1 R/A	1194 OR answer a added (all 5 pieces of data)	С	
	Divides	1 R/A	answer c ÷ 5	d	
	Finds mean	1 A	238.8	е	
	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 ln	Liam is third fastest	h	
	Calculates average speed	1 R	1500 ÷ 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 ÷ 12 OR 7 ÷ 12 OR 58/100 (as an approximation)	I	
	Finds answer	1 R/A	58 ÷ answer I 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	а	
	Calculates no. of tubes	1 R	5000 ÷ 100 OR 5 ÷ 0.1	b	
	Finds answer	1 A	50 tubes	С	
	Calculates no. of sweets in each tube	1 R	750 ÷ 50	d	
	Finds no. of sweets in each tube	1 A	15	е	
	Uses formula	1 R	2.5 x 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 ÷ answer h	I	
	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) ÷ 9.94 OR 12 x 0.6 OR 12 x 60 OR 50 x 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	О	
	Finds no. of tubes available and concludes	1 In	72 AND yes, he has enough tubing.	р	