

Topic Test 1 (20 minutes)

Measures - Higher

1		Convert 2 m² into cm² Circle your answer.				[1 mark]		
		20 cm ²	200 cm ²	2000 cm ²	20 000 cm ²			
2		inch = 2.54 cm Convert 127 cm ² into squ	are inches.			[2 marks]		
			Answer					
3	Adam's weight to the nearest kilogram is 65 kg							
3	(a)	What is the greatest p	ossible value of	his weight?		[1 mark]		
			kg					
3	(a)	What is the least poss	ible value of his	weight?		[1 mark]		
			Answer			kg		

	A solid cuboid is standing on a flat surface on one of its faces. The cuboid has dimensions 3 cm by 4 cm by 5 cm The cuboid has a mass of 0.5 kg					
	Work out the maximum pressure that the cuboid can exert on the surface. Give your answer in \mbox{kg}/\mbox{cm}^2	[3 marks				
	Answer	kg/cm ²				
	Convert 24 000 cm³ into m³	[1 marks				
	Answer	m ²				
Or	om's car travels 40 miles per gallon. ne litre of petrol costs £1.19 gallon = 4.5 litres					
W	ork out the cost of petrol when Tom drives 200 miles.	[4 marks				
	Answer £					

	race, Alex runs at an average speed of 10 kilometres per hour. y runs at an average speed of 3 metres per second.	
	o runs faster? must show your working.	
		[3 mark
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	Answer	
The	mans of a block of wood in 750 grams	
	mass of a block of wood is 750 grams. mass is given to 2 significant figures.	
	volume of the block is 1500 cm ³ . volume is given to the nearest 10.	
Give	en that $density = \frac{mass}{volume}$	
Wor	k out the smallest possible value of the block's density.	[4 mark
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	Answer	g/cm ³