MASS CALCULATIONS

Pearson Edexcel - Thursday 8 November 2012 - Paper 2 (Calculator) Higher Tier

1.

13 The diagram shows a solid triangular prism.

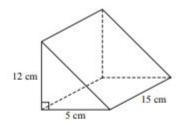


Diagram NOT accurately drawn

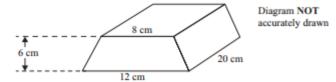
The prism is made from metal. The density of the metal is 6.6 grams per cm³.

Calculate the mass of the prism.

(Total for Question 13 is 3 marks)

Pearson Edexcel - Wednesday 9 November 2011 - Paper 3 (Non-Calculator) Higher Tier 2.

16.



The diagram shows a solid prism made from metal. The cross-section of the prism is a trapezium.

The parallel sides of the trapezium are 8 cm and 12 cm. The height of the trapezium is 6 cm. The length of the prism is 20 cm.

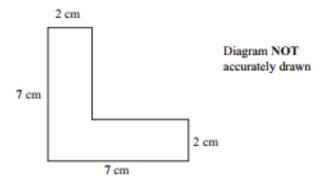
The density of the metal is 5 g/cm3.

Calculate the mass of the prism. Give your answer in kilograms.

(Total 5 marks)

Pearson Edexcel - Monday 6 June 2011 - Paper 3 (Non-Calculator) Higher Tier

3.



The diagram shows the cross-section of a solid prism. The length of the prism is 2 m.

The prism is made from metal. The density of the metal is 8 grams per cm³.

Work out the mass of the prism.

(Total 5 marks)

The snapes are made from the same m	ateriai.		
A	B	Diagram NOT accurately drawn	
The surface area of A is 50 cm ² . The surface area of B is 18 cm ² .			
The mass of A is 500 grams.			
Calculate the mass of B.			
		grams	

23. A and B are two solid shapes which are mathematically similar.

AQA GSCE – Tuesday 12 June 2018 – Paper 3 (Calculator) Higher Tier 5.

(Total 4 marks)

21		The mass of an ornament is m grams. The height of the ornament is h centimetres.	
		m is directly proportional to the cube of h . m = 1600 when $h = 8$	
21	(a)	Work out an equation connecting m and h .	[3 marks]
		Answer	
21	(b)	Work out the mass of an ornament of height 12 centimetres.	[2 marks]
		Answer	grams

AQA GSCE – Tuesday 13 June 2017 – Paper 3 (Calculator) Higher Tier 6.

This sign shows when a lift is safe to use.				
Total mass of people must be 450 kg or less				
Ben and some other people are in the lift.				
Their total mass is 525 kg to the nearest 5 kg				
Ben gets out.				
He has a mass of 78 kg to the nearest kg				
Is the lift now safe to use?				
You must show your working.				
	[4 mar			