## **CONVERSION AND UNITS**

Pearson Edexcel - Wednesday 8 November 2017 - Paper 3 (Calculator) Higher Tier

1.

2 In London, 1 litre of petrol costs 108.9p In New York, 1 US gallon of petrol costs \$2.83

In which city is petrol better value for money, London or New York? You must show your working.

(Total for Question 2 is 3 marks)

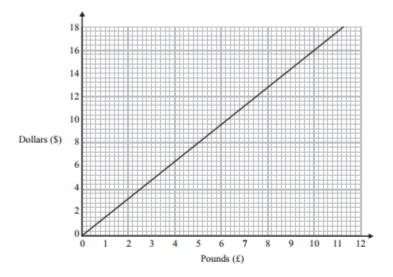
Pearson Edexcel - Friday 6 November 2015 - Paper 2 (Calculator) Higher Tier

2.

4	There are 18500 gallons of fuel in a fuel tank.					
	The fuel is pumped from the fuel tank into a plane at a rate of 1700 litres per minute.					
	l gallon = 4.5 litres.					
	How many minutes will it take to empty the fuel tank completely?  Give your answer to the nearest minute.					
	minutes					
	(Total for Question 4 is 3 marks)					
	, and the same of					
Pe	earson Edexcel - Friday 6 November 2015 - Paper 2 (Calculator) Higher Tier					
3.						
6	A rectangle has an area of $4  \mathrm{m}^2$ .					
	Write this area in cm <sup>2</sup> .					
	cm <sup>2</sup>					
_	(Total for Question 6 is 2 marks)					

Pearson Edexcel - Thursday 28 February 2013 - Paper 1 (Non-Calculator) Higher Tier

6 You can use this conversion graph to change between pounds (£) and dollars (\$).



(a) Use the conversion graph to change £5 to dollars.



Ella has \$200 and £800 Her hotel bill is \$600

Ella pays the bill with the \$200 and some of the pounds.

(b) Use the conversion graph to work out how many pounds she has left.



## Pearson Edexcel - Monday 14 November 2011 - Paper 4 (Calculator) Higher Tier 5.

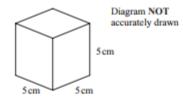
18. Change 9 cm<sup>2</sup> to mm<sup>2</sup>.



## Pearson Edexcel - Thursday 5 November 2009 - Paper 3 (Non-Calculator) Higher Tier

6.

9. (a) A solid cube has sides of length 5 cm.



Work out the total surface area of the cube. State the units of your answer.

	(4)
The volume of the cube is $125\mathrm{cm}^3$ .	
(b) Change 125 cm³ into mm³.	
	mm³ (2)
The weight of the cube is $\$7$ grams, correct to the nearest gram.	
(c) (i) What is the minimum the weight could be?	
	grams
(ii) What is the maximum the weight could be?	
	grams (2)

(Total 8 marks)

AQA GSCE -	– Thursday 8 June 2020 – Paper 3 (Calculator) Higher Tier				
7.					
18	The pressure in a tyre is 30 pounds per square inch.				
	Convert the pressure into kilograms per square centimetre.				
	Use 1 pound = 0.45 kilograms and 1 inch = 2.54 centimetres				
	[3]	marks]			
	Answer kg/cm <sup>2</sup>				
AQA GSCE - 8.	– Monday 24 May 2018 – Paper 1 (Non - Calculator) Higher Tier				
13	Circle the volume that is the same as 15 cm <sup>3</sup>				

15 000 mm<sup>3</sup> 1.5 mm<sup>3</sup> 0.0015 mm<sup>3</sup> 150 mm<sup>3</sup>

[1 mark]

AQA GSCE – Thursday 7 June 2018 – Paper 2 (Calculator) Higher Tier					
9.					
24	A tank is a cuboid measuring 50 cm by 35 cm by 20 cm All lengths are to the <b>nearest centimetre</b> .  A container has a capacity of <b>exactly</b> 34 litres.  1 litre = 1000 cm <sup>3</sup>				
	Which has the greater capacity?  Tick one box.  Tank  Container  Cannot tell  Show working to support your answer.  [4 marks]				

AQA GS	CE – Tuesday 12 June 2018 –	Paper 3 (Calculator	) Higher Tier	
10.				
12	$pressure = \frac{force}{area}$			
	A force of 40 Newtons is a	pplied to an area of	3.2 square metres.	
	Work out the pressure.			
	Give the units of your answ	ver.		[2 marks]
	Answer			
AQA GS	CE – Thursday 6 November 20	)17 – Paper 2 (Calcı	ılator) Higher Tier	
11.				
4	Which one of these is a u	nit of density?		
	Circle your answer.			[1 mark
	kg/m <sup>2</sup>	m²/kg	kg/m <sup>3</sup>	m³/kg

AQA GSCE – Wednesday 25 May 2017 – Paper 1 (Non - Calculator) Higher Tier 12.

8	x  km/h = y  mph					
	Use 8 km/h = 5 mph to write a formula for $y$ in terms of $x$ . [2 main			rks]		
			Answer			
			7410401			
AQA GSCI	– Thu	ursday 8 June 201	7 – Paper 2 (Calculator	) Higher Tier		
13.						
2	Circle the area that is equal to 36 mm <sup>2</sup>				[1 mark]	
		360 cm <sup>2</sup>	3600 cm <sup>2</sup>	3.6 cm <sup>2</sup>	0.36 cm <sup>2</sup>	
AQA GSCI	– Sar	mple Paper 1 (Nor	n - Calculator) Higher Ti	er		
14.						
3	Circle the area that is the same as 5.5 m <sup>2</sup>			[1 mark]		
		550 cm <sup>2</sup>	5 500 cm <sup>2</sup>	55 000 cm <sup>2</sup>	5 500 000 cm <sup>2</sup>	