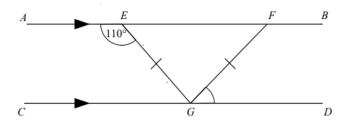
## iGetMaths Guided Revision Foundation No Calculator Paper



A cylinder has a radius of 5 cm and a height of 12 cm. Work out the volume of the cylinder. Give your answer in terms of  $\pi$ . 12 cm The centimetre grid shows the plan and the front elevation of a cylinder. Plan Front elevation Work out the volume of the cylinder. Give your answer in terms of  $\pi$ 

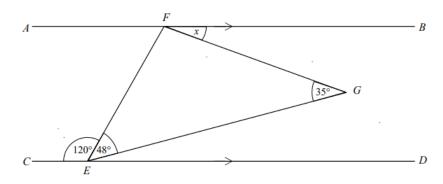


WE DO

AB and CD are parallel lines. EFG is an isosceles triangle

Angle  $AEG = 110^{\circ}$ 

Find the size of angle *FGD*. Give a reason for each stage of your working.



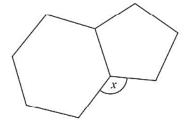
YOU DO

AB and CD are parallel.

Find the size of angle *x*. Give a reason for each stage of your working.

Here is a regular hexagon and a regular pentagon.

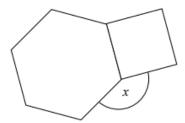




Work out the size of the angle marked *x*. You must show all your working.

Here is a regular hexagon and a square.





Work out the size of the angle marked *x*. You must show all your working.

A delivery company has a total of 160 cars and vans.

the number of cars: the number of vans = 3:7

Each car and each van uses electricity or diesel or petrol.

 $\frac{1}{8}$  of the cars use electricity.

25% of the cars use diesel.

The rest of the cars use petrol.

Work out the number of cars that use petrol.

You must show all your working.



A delivery company has a total of 240 cars and vans.

the number of cars: the number of vans = 7:3

Each car and each van uses electricity or diesel or petrol.

 $\frac{3}{8}$  of the vans use electricity.

25% of the vans use diesel.

The rest of the vans use petrol.

Work out the number of vans that use petrol.

You must show all your working.



(a) Write $2.36 \times 10^{-4}$ as an ordinary number	(a)	Write 2.36 ×	$10^{-4}$ as a	an ordinary numl	ber.
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(b) Write 127 000 in standard form.

(c) Work out  $(5 \times 10^2) \times (7 \times 10^{-4})$ Give your answer in standard form.

(a) Write  $1.63 \times 10^{-3}$  as an ordinary number.



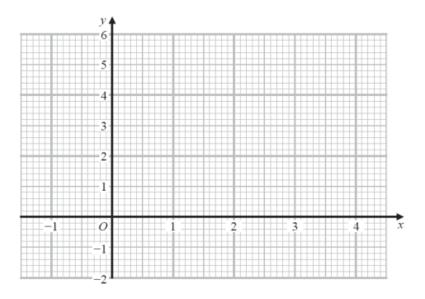
(b) Write 438000 in standard form.

(c) Work out  $(4 \times 10^3) \times (6 \times 10^{-5})$ Give your answer in standard form. (a) Complete the table of values for  $y = x^2 - 3x + 1$ 

X	-1	0	1	2	3	4
у		1	-1			



(b) On the grid, draw the graph of  $y = x^2 - 2x + 3$  for values of x from -1 to 3



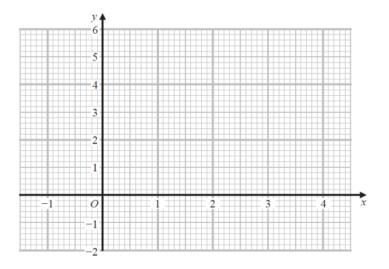
(c) Using your graph, find estimates for the solutions of the equation  $x^2 - 2x + 3 = 4$ 

(a) Complete the table of values for  $y = x^2 - 2x + 3$ 

x	-1	0	1	2	3
у		3	2		



(b) On the grid, draw the graph of  $y = x^2 - 2x + 3$  for values of x from -1 to 3



(c) Using your graph, find estimates for the solutions of the equation  $x^2 - 2x + 3 = 4$