



## Mathematics

## Foundation: No calculator allowed

Time allowed: 45 minutes

First name				
Middle name				
Last name				
Date of birth	Day	Month	Year	
Teacher		 <u>.</u>		

Α

These assessments have been designed by White Rose Maths. For more information, please visit **www.whiterosemaths.com** 



Triangle

Tetrahedon

Sphere

Cone

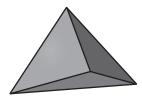
Rectangle













15	1(	46 D
21	16	3 64
	13	30

From the numbers in the rectangle,

write down a multiple of 4

1 mark

write down a prime number.



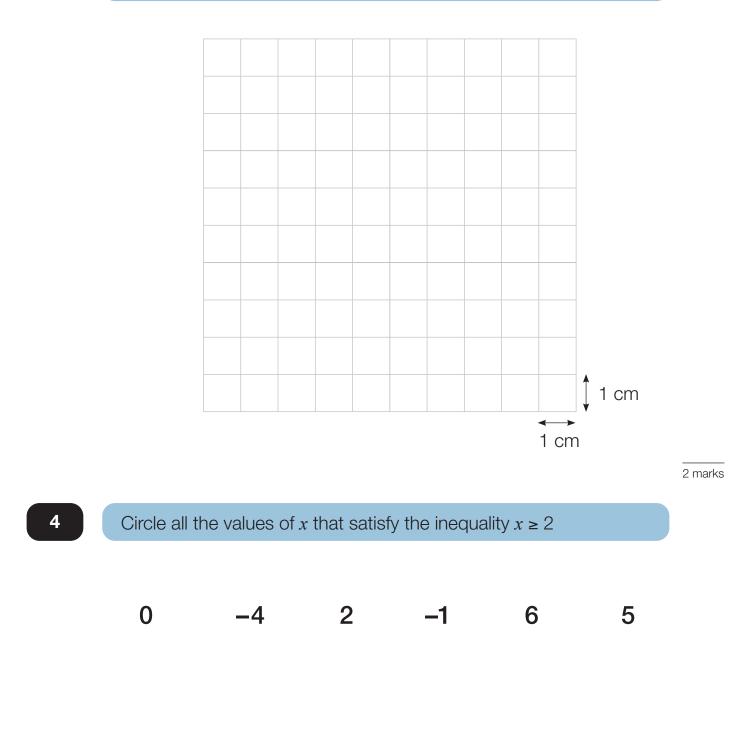
1 mark

2

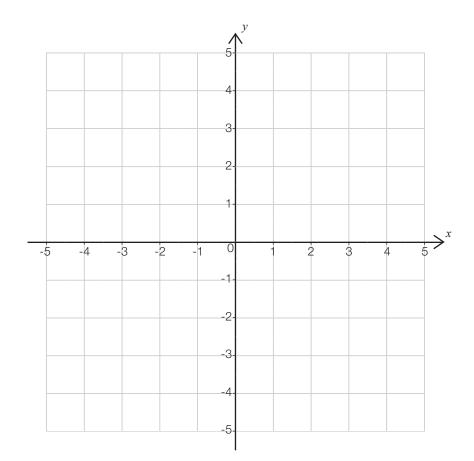


A rectangle is 40 cm long and 30 cm wide.

Use a scale of 1 cm to represent 10 cm to draw a scale diagram of the rectangle on the grid.







Plot the points (-1, 4), (-1, -3) and (-1, 0) on the grid.

2 marks

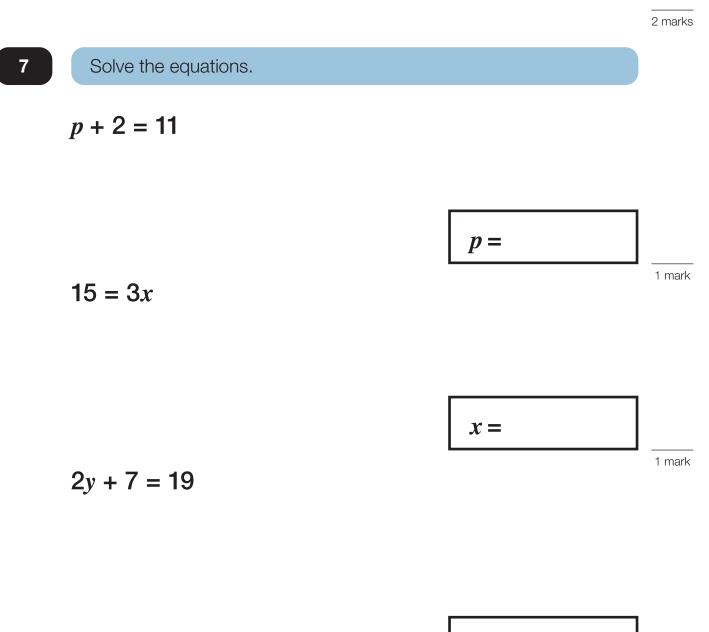
The three points lie on a straight line.

Write down the equation of the line.

1 mark



$$\frac{1}{3}$$
 of 18 = 25% of 24

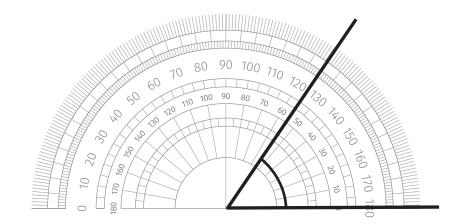


2 marks



*y* =

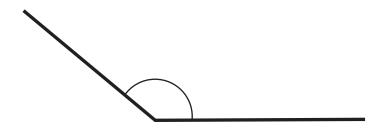
6



Amy thinks that the angle measures 125°.

Explain what Amy has done wrong.

Measure the angle.



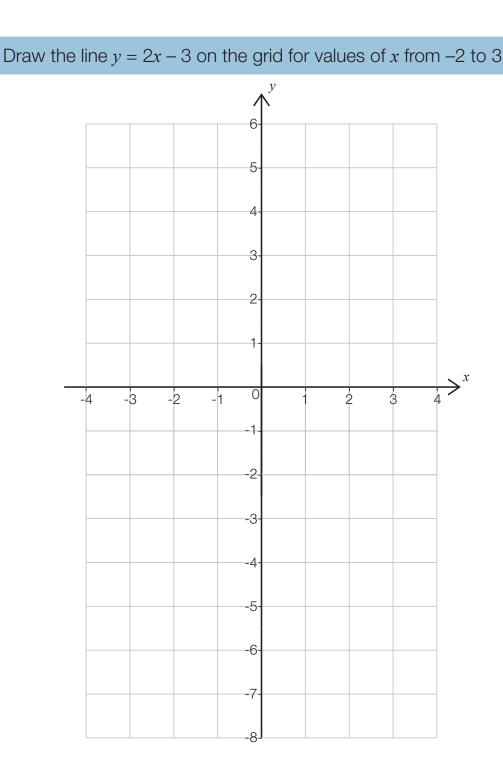


1 mark



x	-2	-1	0	1	2	3
у		-5			1	3

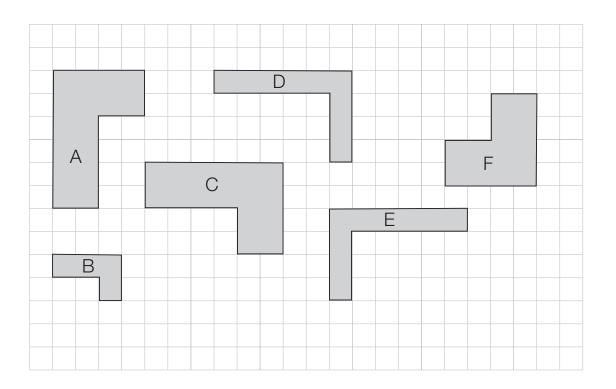
2 marks



9



There are 6 shapes on the grid.



Find the perimeter of shape B.

units

1 mark

Write down the letters of two shapes that are congruent.

\_\_\_\_\_ and \_\_\_\_\_

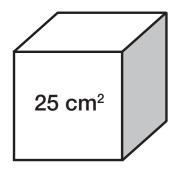
1 mark



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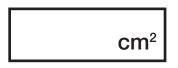
Here is a cube.

One face of the cube has an area of 25 cm<sup>2</sup>.



How many faces does a cube have?

Work out the total surface area of the cube.

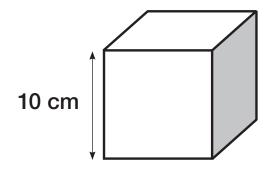


1 mark

1 mark



The length of each edge is 10 cm.



Work out the volume of the cube.

State the units of your answer.

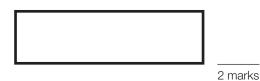
\_\_\_\_\_



Here is a formula connecting the number of faces (F), edges (E) and vertices (V) in a 3-D shape.

A 3-D shape has 8 edges and 5 vertices.

How many faces does the 3-D shape have?







Use a pair of compasses to draw the locus of the points that are 4 cm from point C.



## 14

13

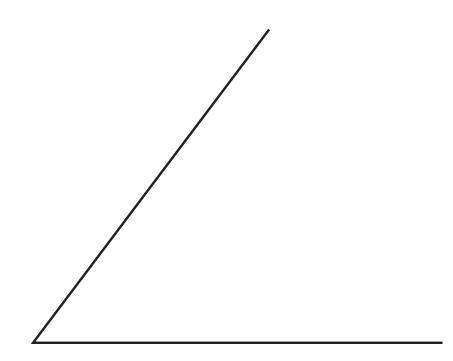
Show that the point (3, 5) does not lie on the line y = x + 4





Use a ruler and a pair of compasses to bisect the angle.

Leave your construction lines showing.

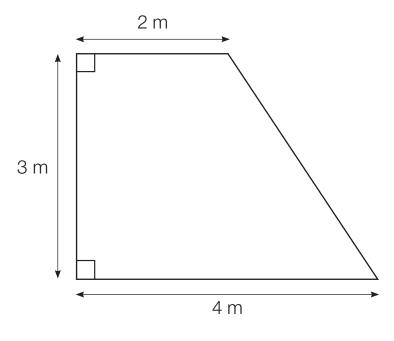


2 marks



15





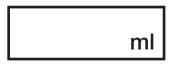
Find the area of the side of the shed.



2 marks

800 ml of paint is needed to cover 1  $m^2$  of the side of the shed.

How much paint is needed altogether to paint the side of the shed?





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