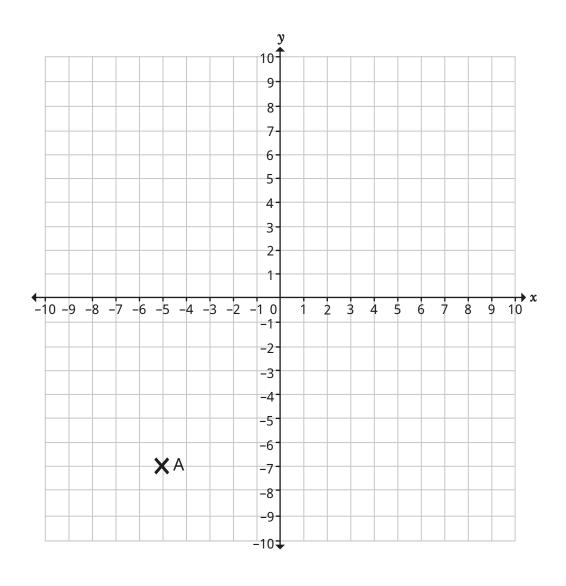
Autumn Assessment

Year 8

Mathematics

Calculator allowed Time allowed: 45 minutes

First name				
Middle name				
Last name				
Date of birth	Day	Month	Year	
Teacher				



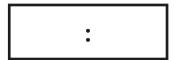
What are the coordinates of point A?

(,)
-----	---

1 mark

On the grid, plot the point (2, -3) and label it B.

1 mark



1 mark

Dexter has worked out $\frac{3}{5} \times 8$. Here is his working.

$$\frac{3}{5}\times8=\frac{24}{40}$$

Explain the mistake he has made.

1 mark

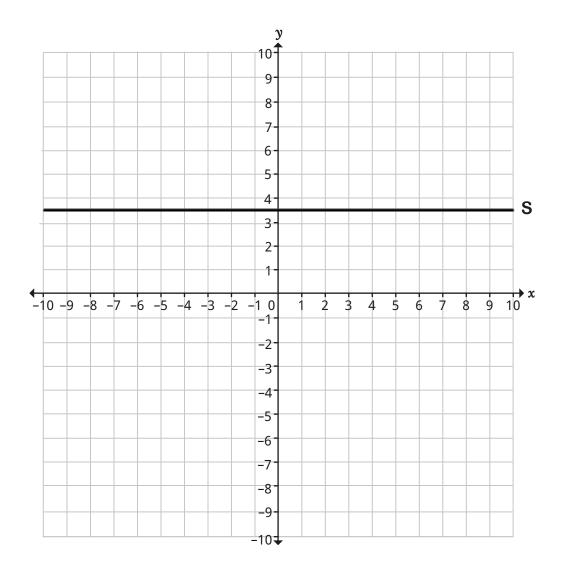
Work out $\frac{3}{8} \times 12$



The two-way table shows some information about **420** students in a school.

	Year 7	Year 8	Year 9	Total
Goes to school by bus	93			
Goes to school by car		57		166
Total	155		120	

Complete the two-way table.



What is the equation of line **S**?

1 mark

Draw the graph of x = -2

1 mark

Write the coordinates of the point where x = -2 meets line **S**.

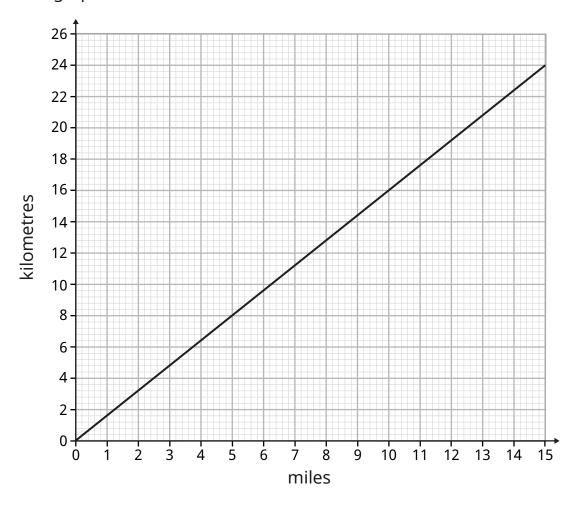
(,)

Work out the cost of buying **13** of the same pens.

£

2 marks

The graph shows the conversion between miles and kilometres.



Convert 16 kilometres to miles.

miles

Convert 160 kilometres to miles.

Convert 13 miles to kilometres.

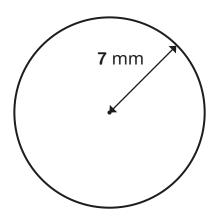
1 mark

miles

1 mark

1 mark

Here is a circle.



What is the diameter of the circle?

mm

1 mark

Work out the circumference of the circle.

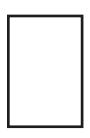
mm

2 marks

q

Show that **9** $\div \frac{1}{3} = 27$

Work out the value of **5***a*.



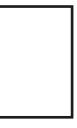
1 mark

Work out the value of 2ab.



2 marks

Work out the value of $\frac{a}{b}$

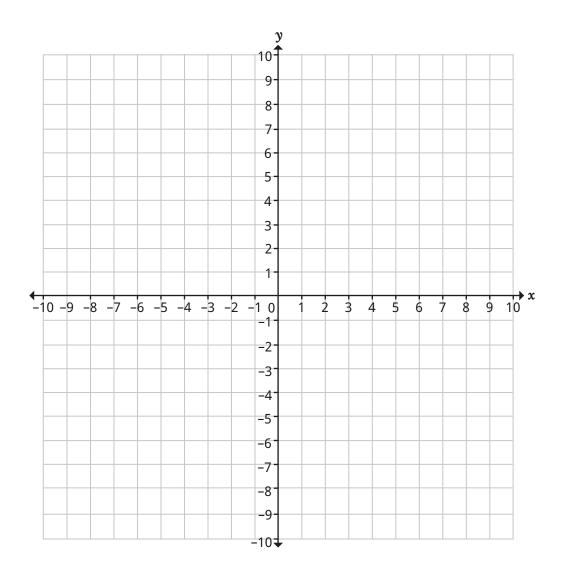


Complete the table of values for y = 2x - 4

x	-2	-1	0	1	2
У	-8				

2 marks

Draw the graph of y = 2x - 4 for values of x from -2 to 2



Tom has a **2p coin** and a fair 6-sided dice.

He flips the counter and rolls the dice.

Complete the sample space diagram to show the possible outcomes.

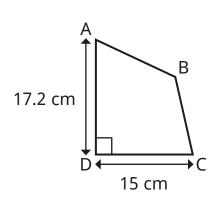
	1	2	3	4	5	6
Heads	H1					
Tails			Т3			

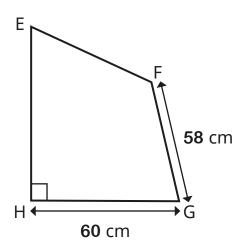
1 mark

What is the probability that the die lands on 5 and the coin lands on tails?

ABCD and EFGH are similar.

The diagrams are not drawn accurately.





What is the scale factor of enlargement from ABCD to EFGH?



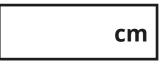
1 mark

Work out the length of EH.



1 mark

Work out the length of BC.



1 mark

£1 = **€1.17**

The cost of buying a tablet in the UK is £658

The cost of buying the same tablet in **Italy** is €552

Where is the tablet cheaper?

Circle your answer.

UK

Italy

Show your working.

Billy and Brenda run a market stall.

They share the money in the ratio 4:5

What fraction does Billy get?



1 mark

One week, they earn £632.70 in total.

How much money does Brenda get?

£

2 marks

END OF TEST

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