Year 8

Mathematics

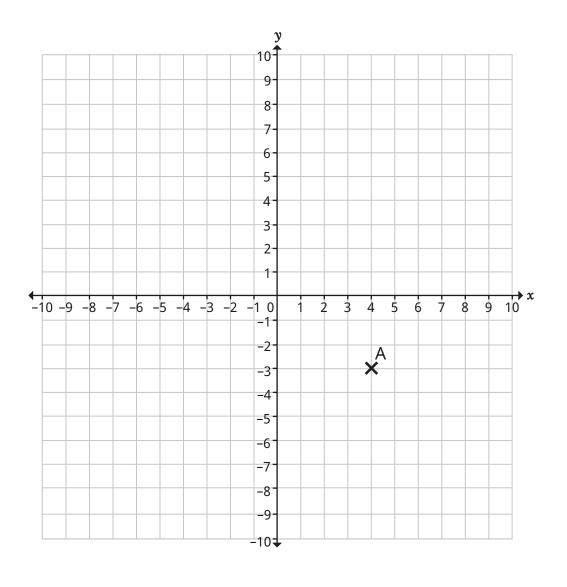
Core: Calculator allowed

Time allowed: 45 minutes

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

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What are the coordinates of point A?

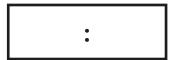
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1 mark

On the grid, plot the point (-7, 8) and label it B.

1 mark

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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 $\frac{3}{5} \times 8$

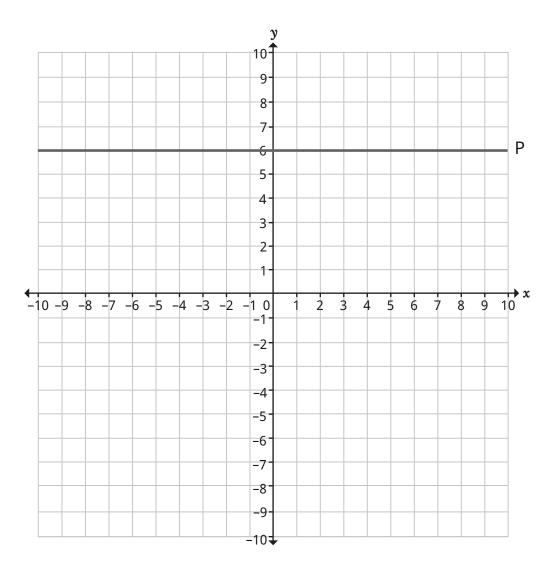


1 mark

The two-way table shows some information about 315 students in a school.

	Year 7	Year 8	Year 9	Total
Has a packed lunch	81			
Does not have a packed lunch		45		132
Total	125		90	

Complete the two-way table.



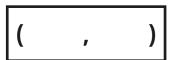
What is the equation of line P?

1 mark

Draw the graph of x = -7

1 mark

Write the coordinates of the point where x = -7 meets line P.



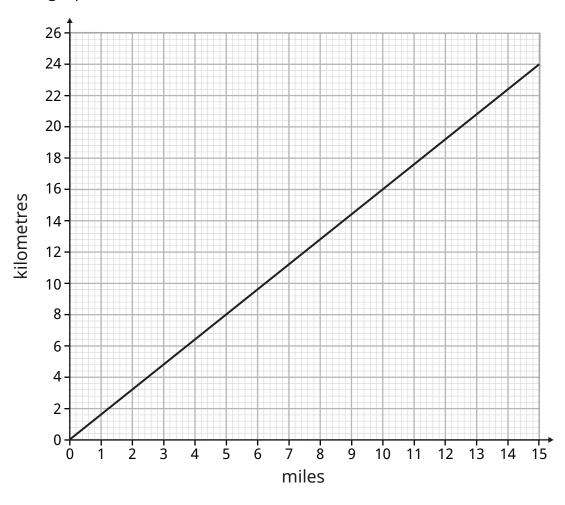
Work out the cost of buying 10 of the same pens.

£

2 marks

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The graph shows the conversion between miles and kilometres.



Convert 10 miles to kilometres.

km

1 mark

Convert 8 kilometres to miles.

miles

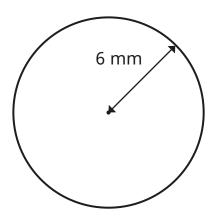
1 mark

Convert 80 kilometres to miles.

miles

1 mark

Here is a circle.



What is the diameter of the circle?



1 mark

Work out the circumference of the circle.

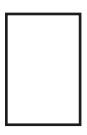


2 marks

9

Show that $6 \div \frac{1}{3} = 18$

Work out the value of 4a.



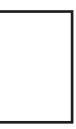
1 mark

Work out the value of *ab*.



2 marks

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

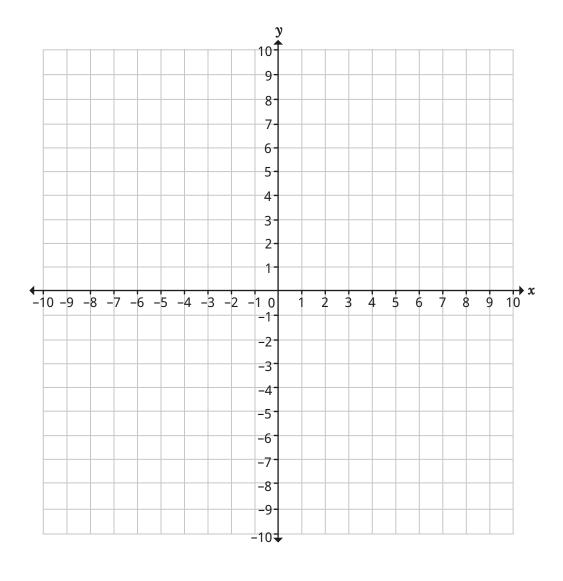


Complete the table of values for y = 3x - 1

x	-2	-1	0	1	2
У	-7		-1		

2 marks

Draw the graph of y = 3x - 1 for values of x from -2 to 2



Tom has a double-sided counter and a fair 6-sided dice.

His counter is red (R) on one side and yellow (Y) on the other.

He flips the counter and rolls the dice.

Complete the sample space diagram to show the possible outcomes.

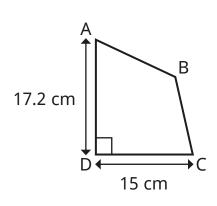
	1	2	3	4	5	6
Red	R1					
Yellow			Y3			

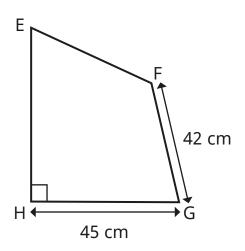
1 mark

What is the probability that the dice lands on an odd number and the counter lands on red?

ABCD and EFGH are similar.

The diagrams are not drawn accurately.





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



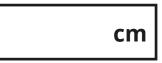
1 mark

Work out the length of EH.



1 mark

Work out the length of BC.



1 mark

£1 = €1.13

The cost of buying a tablet in the UK is £429

The cost of buying the same tablet in Spain is €479

Where is the tablet cheaper?

Circle your answer.

UK

Spain

Show your working.

Nijah and Scott do a car boot sale.

They share the money earned in the ratio 2:3

What fraction of the money does Scott get?



1 mark

One week, they earn £97.50 in total.

How much money does Nijah get?

£

2 marks

END OF TEST

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