

Autumn Assessment

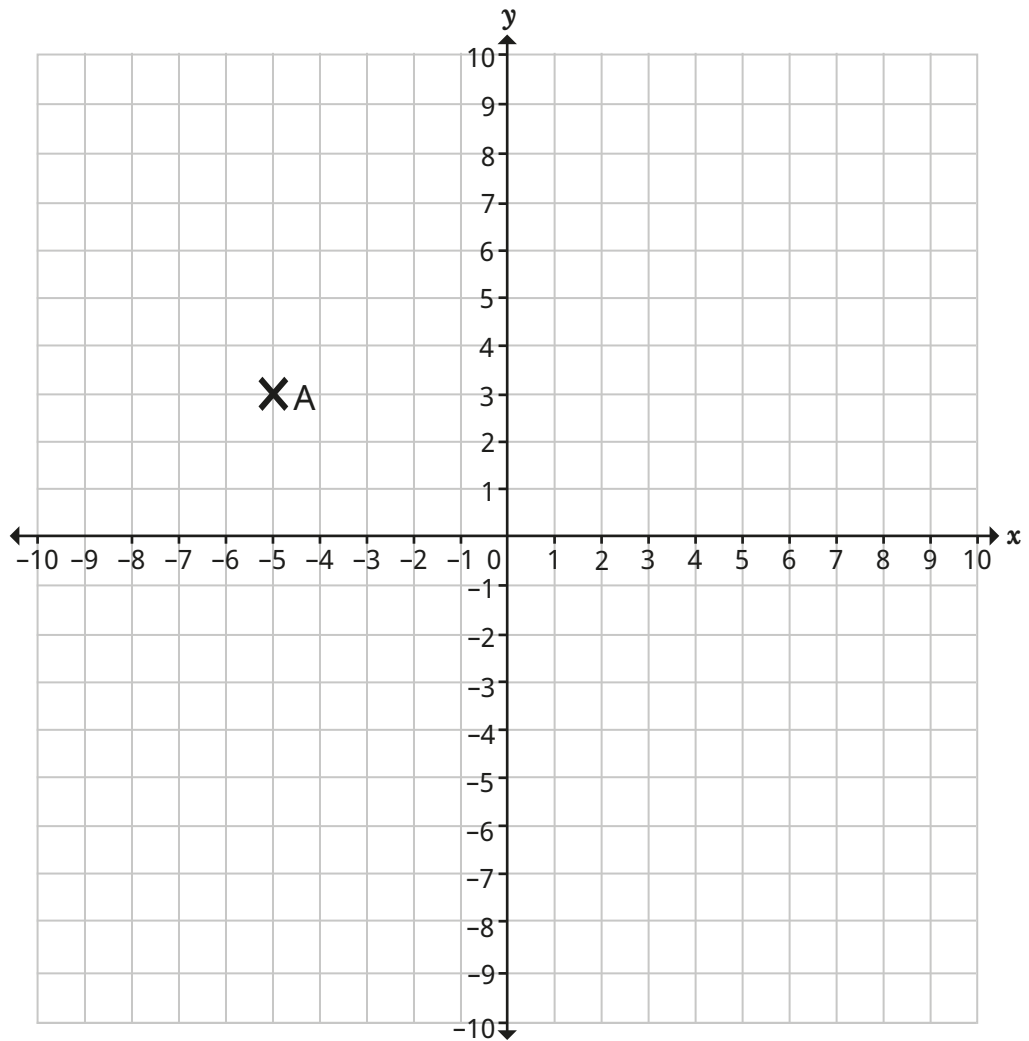
Year 8

Mathematics

Calculator allowed
Time allowed: 45 minutes

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

1



What are the coordinates of point A?

(,)

1 mark

On the grid, plot the point (-5, 5) and label it B.

1 mark

2

Express 75 : 200 in its simplest form.

:

1 mark

3

Billy has worked out a solution to

$$\frac{2}{3} \div \frac{3}{4} = \frac{6}{12} = \frac{1}{2}$$

Explain the mistake he has made.

1 mark

Solve the question below

Work out $\frac{2}{3} \div \frac{3}{4} =$

1 mark

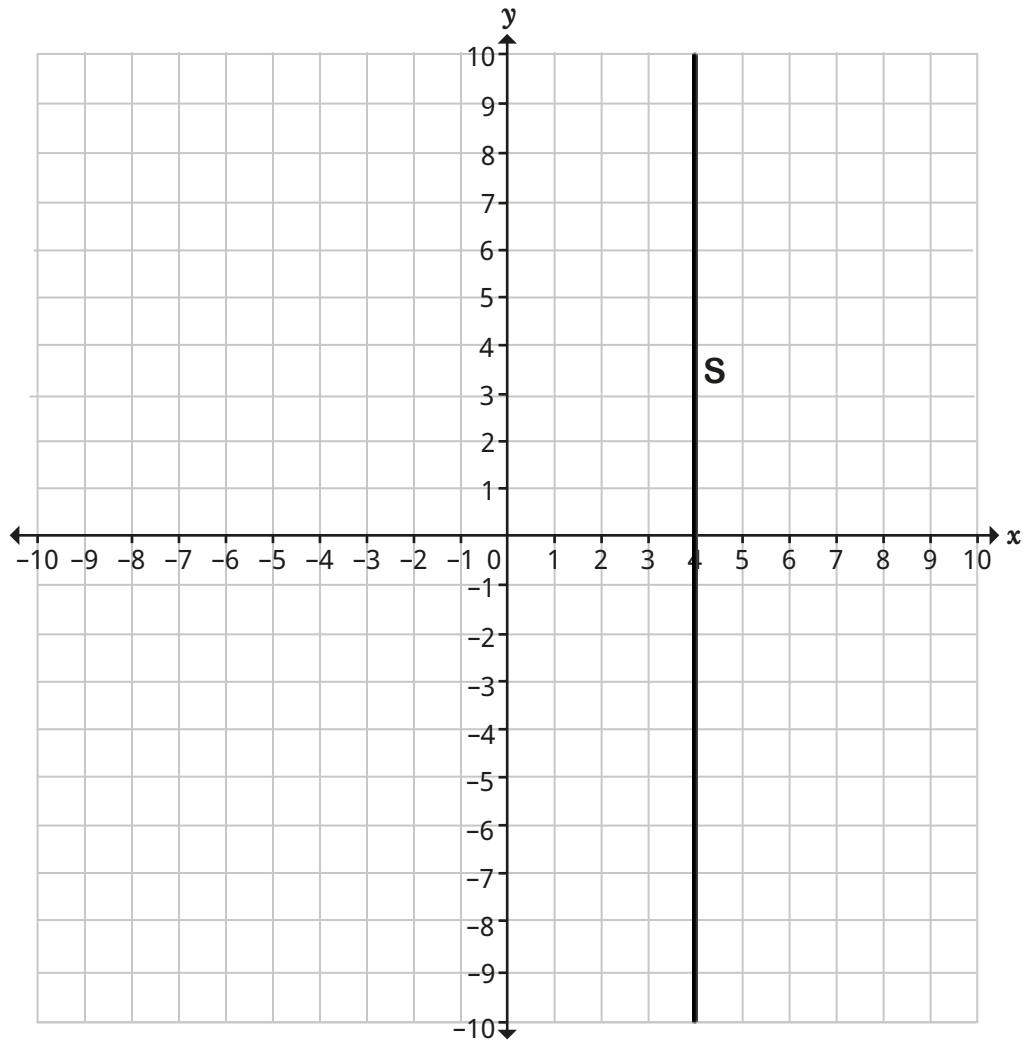
4

The two-way table shows some information about **800** students in a school.

	Year 9	Year 10	Year 11	Total
Has school lunch	125			
Takes sandwiches		89		250
Total	195		198	

Complete the two-way table.

5



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

1 mark

Draw the graph of $y = -2$

1 mark

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

(,)

1 mark

6

The cost of buying 9 identical pens is £18.90.

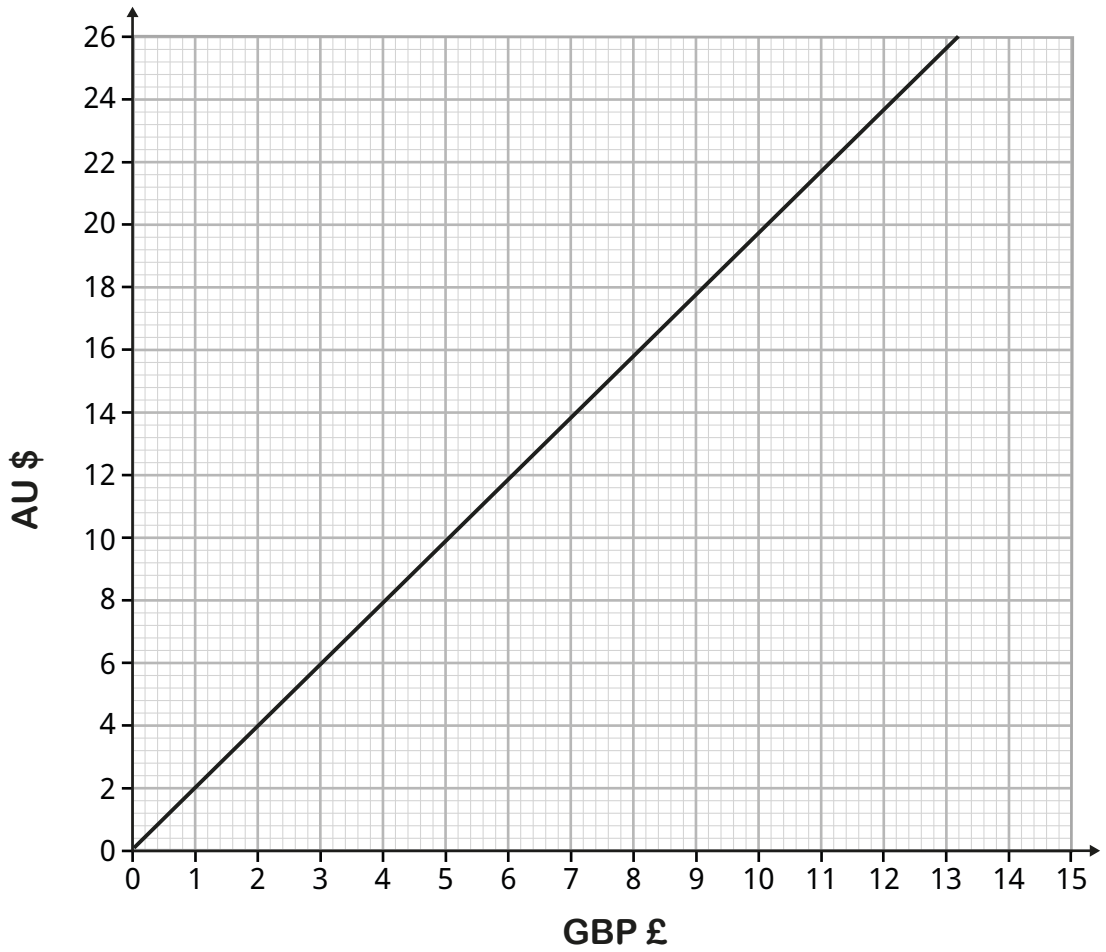
Work out the cost of buying 15 of the same pens.

£

2 marks

7

The graph shows the conversion between **Australian dollar** and **British pound**.



Convert **£6** to **AU\$**

AU\$

1 mark

Convert **AU\$ 16** to **GBP**

£

1 mark

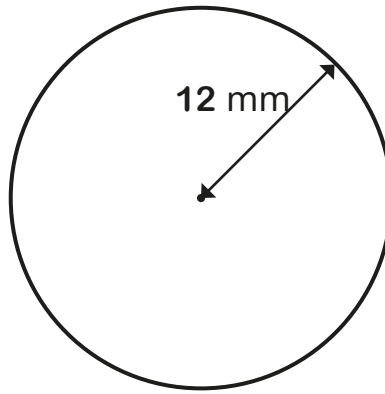
Convert **AU\$1600** to **GBP**

£

1 mark

8

Here is a circle.



What is the diameter of the circle?

mm

1 mark

Work out the circumference of the circle.

mm

2 marks

9

Answer the following question

Show that $\frac{3}{4} \div 12 = \frac{1}{16}$

1 mark

10

$$a = \frac{2}{3} \quad b = \frac{3}{7}$$

Work out the value of $3a$.

1 mark

Work out the value of $5ab^2$.

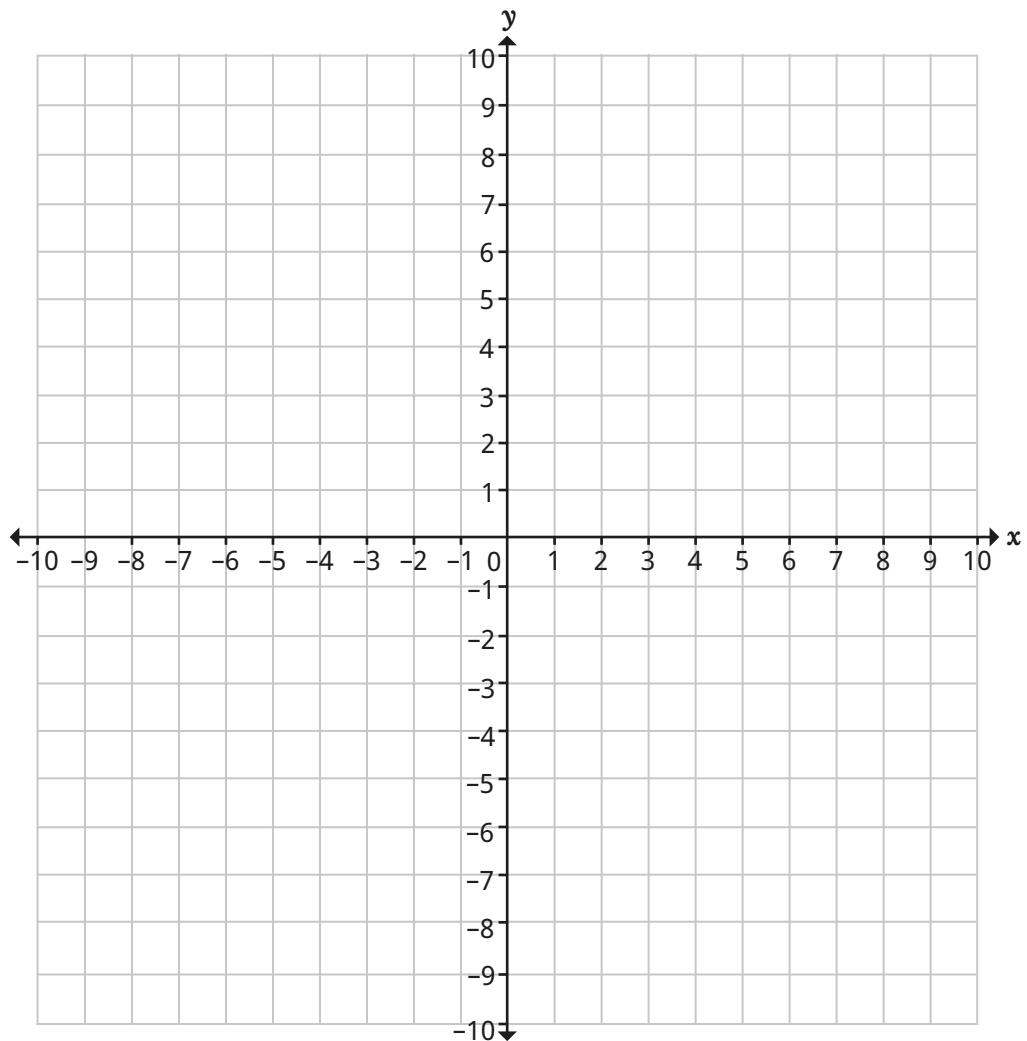
2 marks

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

2 marks

11Complete the table of values for $y = 5 - 2x$

x	-2	-1	0	1	2
y				3	

2 marksDraw the graph of $y = 5 - 2x$ for values of x from -2 to 2

2 marks

12

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				T4		

1 mark

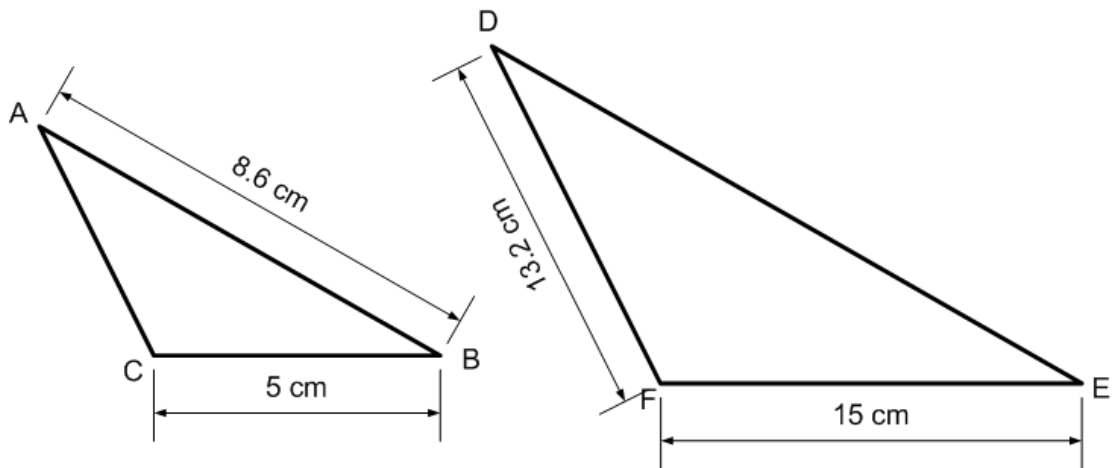
What is the probability that the die lands on 6 and the coin lands on heads?

2 marks

13

ABCD and EFGH are similar.

The diagrams are not drawn accurately.



What is the scale factor of enlargement from **ABC** to **DEF**?

1 mark

Work out the length of **DE**.

1 mark

Work out the length of **AC**

1 mark

14

£1 = €1.24

The cost of buying a tablet in the **UK** is £460. The cost of buying the same tablet in **Poland** is €575

Where is the tablet cheaper?

Circle your answer.

UK

Poland

Show your working.

15

Courtney and Fred run a market stall.

They share the money in the ratio 6 : 15

What fraction does Courtney get?

1 mark

One week, they earn £432.63 in total.

How much money does Fred get?

2 marks

END OF TEST

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