

Bronze Level

Question Paper 13

Level	IGCSE
Subject	Maths
Exam Board	Edexcel
Difficulty Level	Bronze
Booklet	Question Paper 13

Time Allowed: 60 minutes

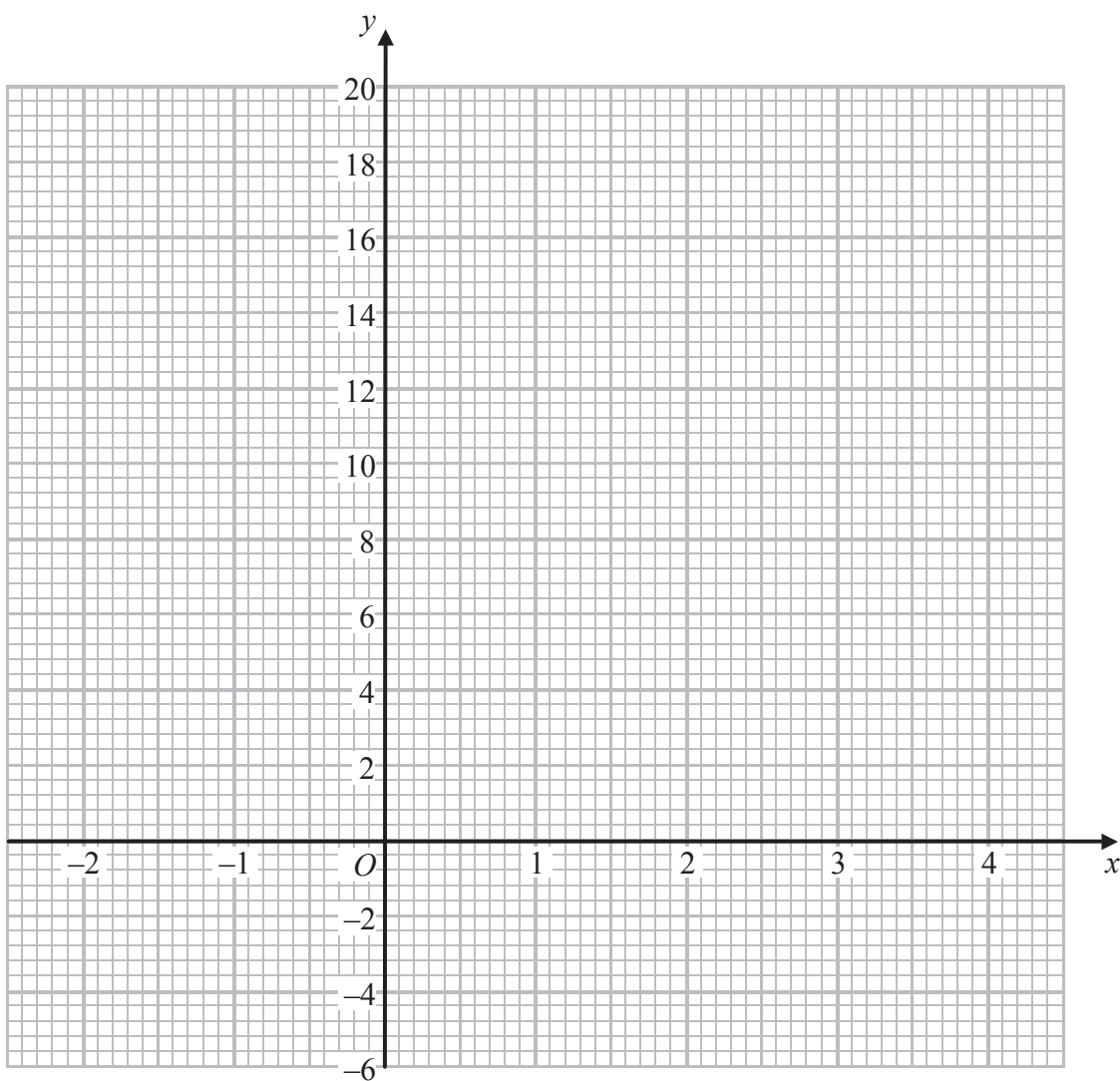
Score: /50

Percentage: /100

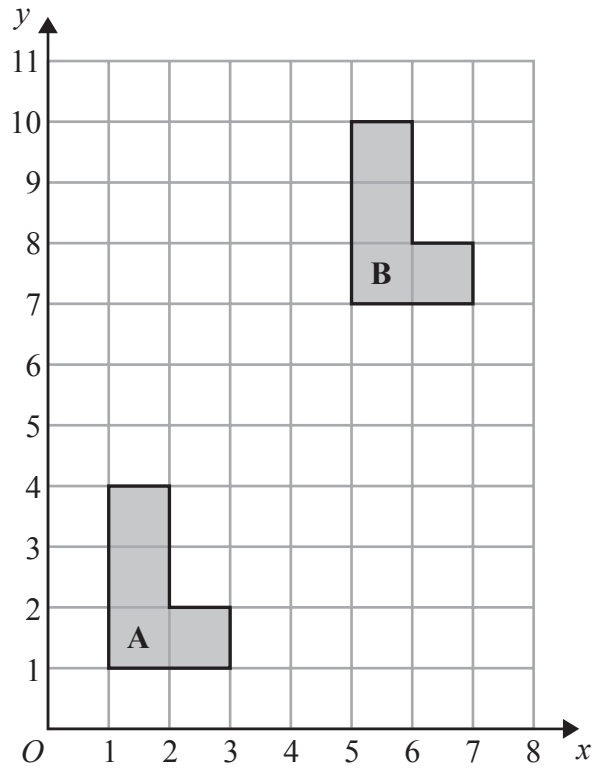
Grade Boundaries:

9	8	7	6	5	4	3	2	1
>95%	85%	75%	65%	55%	45%	35%	25%	<25%

1 On the grid, draw the graph of $y = 3x + 2$ for values of x from -2 to 4



2



Describe fully the single transformation that maps shape A onto shape B.

.....

.....

(Total for Question 2 is 2 marks)

Save My Exams! – The Home of Revision

For more awesome GCSE and A level resources, visit us at www.savemyexams.co.uk/

- 3 Lisa sees a dress in a sale.
The normal price of the dress is \$45
The price of the dress is reduced by 12% in the sale.

(a) Work out the price of the dress in the sale.

\$
(3)

Lisa's weekly pay increases from \$525 to \$546

(b) Calculate her percentage pay increase.

..... %
(3)

(Total for Question 3 is 6 marks)

4 Show that $7\frac{1}{2} \times 4\frac{2}{3} = 2\frac{5}{6}$

(Total for Question 4 is 3 marks)

5 The diagram shows a solid cylinder.

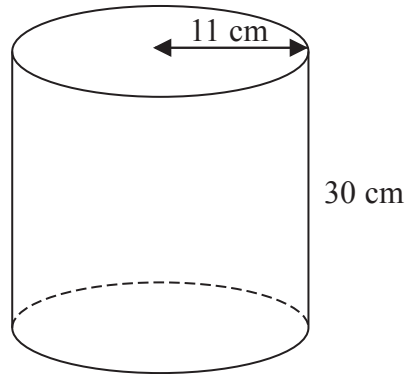


Diagram NOT accurately drawn

The cylinder has a height of 30 cm and a radius 11 cm.

- (a) Work out the **total** surface area of the cylinder.
Give your answer correct to 2 significant figures.

..... cm²
(4)

- (b) The height of the cylinder is 30 cm, correct to the nearest centimetre.

(i) Write down the lower bound of the height of the cylinder.

..... cm

(ii) Write down the upper bound of the height of the cylinder.

..... cm
(2)

(Total for Question 5 is 6 marks)

6 Here are the marks scored in a test by the girls in class 8C.

2 8 10 12 15 16 16 17 18 19 20

(a) Work out the interquartile range of the girls' marks.

.....
(2)

The boys in class 8C did the same test.

The boys' marks had a range of 19 and an interquartile range of 11 marks.

Gareth says that the girls' marks are more spread out than the boys' marks.

(b) Is Gareth right?

Tick (✓) the appropriate box.

Yes

No

Give a reason for your answer.

.....
.....
(1)

(Total for Question 6 is 3 marks)

- 7 Becky counted the number of matches in each of 50 boxes.
The table shows information about her results.

Number of matches	Frequency
45	3
46	7
47	12
48	23
49	4
50	1

Work out the mean number of matches.

.....
(Total for Question 7 is 3 marks)

8

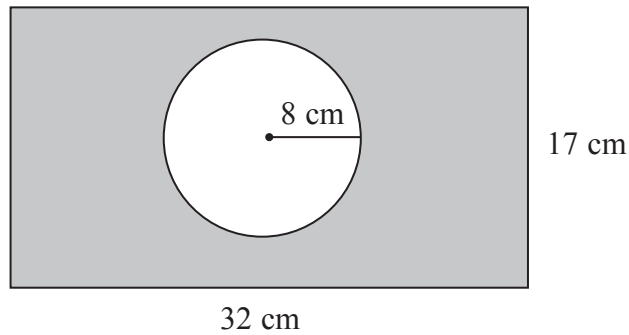


Diagram **NOT** accurately drawn

The diagram shows a circle inside a rectangle.

Work out the area of the shaded region.

Give your answer correct to 3 significant figures.

.....cm²

(Total for Question 8 is 3 marks)

- 9 A bag contains only red counters, blue counters and yellow counters.
The number of red counters in the bag is the same as the number of blue counters.

Mikhail takes at random a counter from the bag.

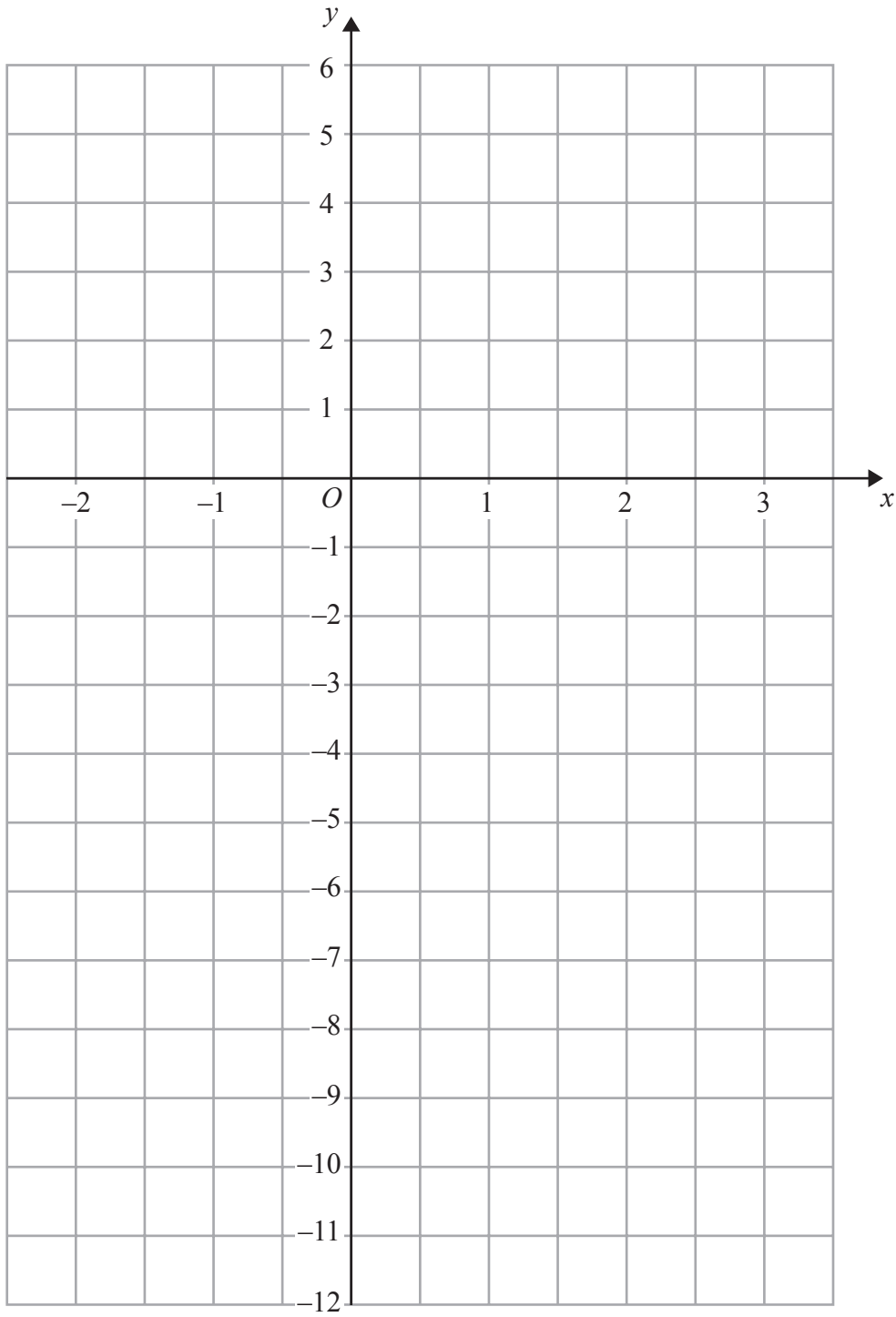
The probability that the counter is yellow is 0.3

Work out the probability that the counter Mikhail takes is red.

.....

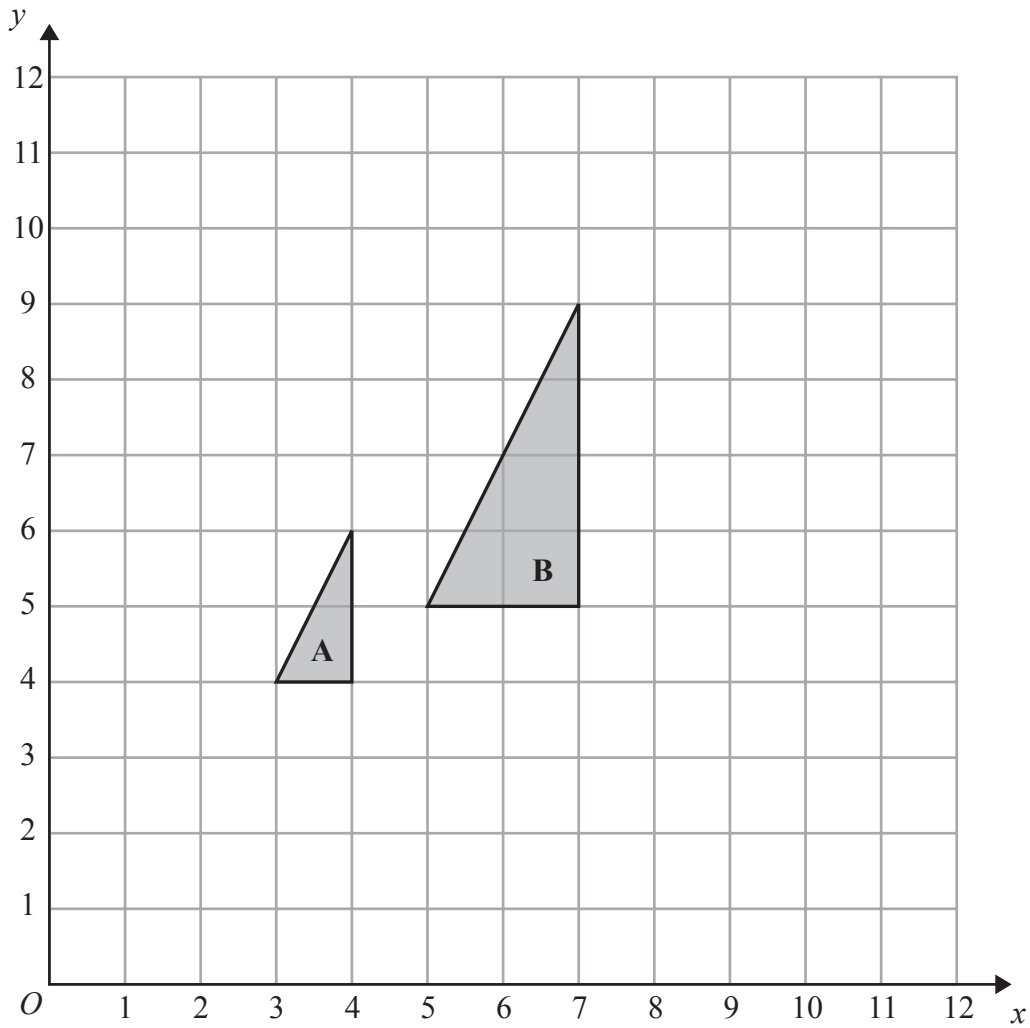
(Total for Question 9 is 3 marks)

10 On the grid, draw the graph of $y = 3x - 4$ for values of x from -2 to 3



(Total for Question 10 is 4 marks)

11



(a) Describe fully the single transformation that maps triangle A onto triangle B.

(3)

(b) On the grid, translate triangle A by the vector $\begin{pmatrix} 5 \\ -2 \end{pmatrix}$

(1)

(Total for Question 11 is 4 marks)

- 12 $\mathcal{E} = \{\text{positive whole numbers less than } 19\}$
 $A = \{\text{odd numbers}\}$
 $B = \{\text{multiples of } 5\}$
 $C = \{\text{multiples of } 4\}$

(a) List the members of the set

(i) $A \cap B$

.....

(ii) $B \cup C$

.....

(2)

$D = \{\text{prime numbers}\}$

(b) Is it true that $B \cap D = \emptyset$?

Tick (✓) the appropriate box.

Yes

No

Explain your answer.

.....

(1)

(Total for Question 12 is 3 marks)

- 13 Lisa, Max and Punita share £240 in the ratio 3 : 4 : 8

How much more money than Lisa does Punita get?

£.....

(Total for Question 13 is 3 marks)

14 Eric travels from the UK to India every year.

In 2010, the exchange rate was $\text{£}1 = 67.1$ rupees.

In 2012, the exchange rate was $\text{£}1 = 82.5$ rupees.

In 2010 Eric changed $\text{£}600$ into rupees.

How many pounds (£) did Eric have to change to rupees in 2012 to get the same number of rupees as he did in 2010?

£

(Total for Question 14 is 3 marks)