

Bronze Level

Question Paper 7

Level	IGCSE
Subject	Maths
Exam Board	Edexcel
Difficulty Level	Bronze
Booklet	Question Paper 7

Time Allowed: 58 minutes

Score: /48

Percentage: /100

Grade Boundaries:

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

1 (a) Expand $6(3a - 2b + c)$

.....
(1)

(b) Factorise $t^2 - 10t$

.....
(2)

(c) Solve $x = \frac{7 - 2x}{3}$

Show clear algebraic working.

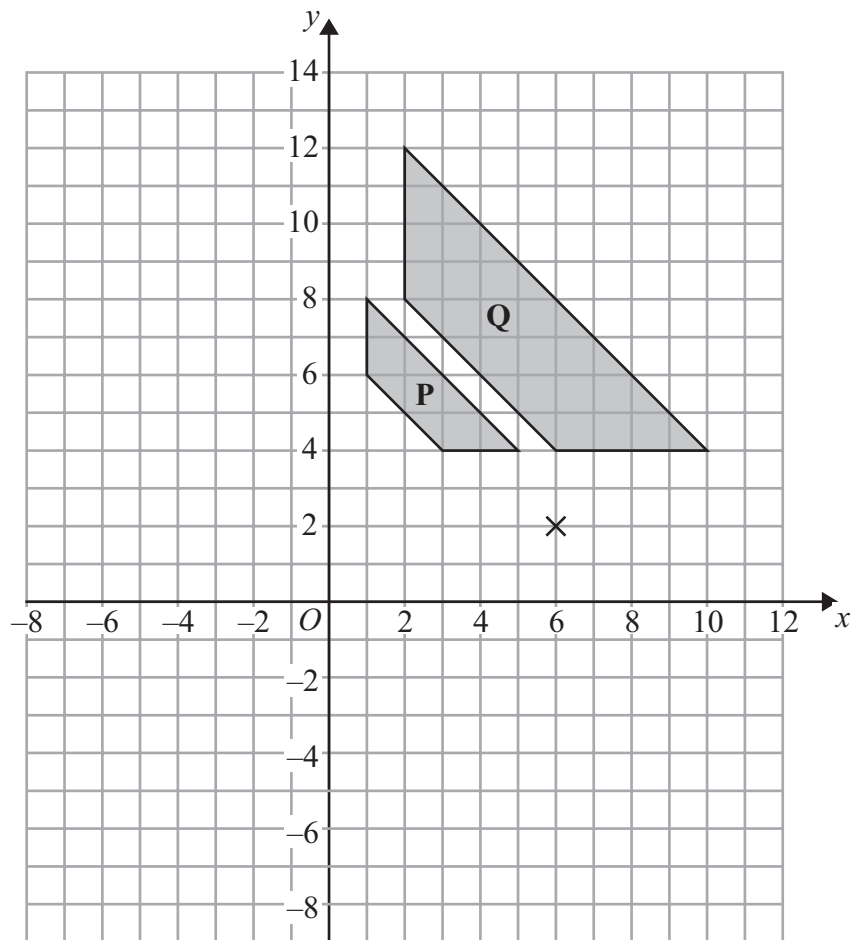
$x =$
(3)

(Total for Question 1 is 6 marks)

2 Show that $\frac{4}{9} - \frac{1}{6} = \frac{5}{18}$

(Total for Question 2 is 2 marks)

3



(a) Describe fully the single transformation that maps shape **P** onto shape **Q**.

.....

.....

(3)

(b) On the grid, rotate shape **Q** 180° about the point (6, 2).
Label the new shape **R**.

(2)

(Total for Question 3 is 5 marks)

- 4 A box contains four different kinds of chocolates. Debbie takes at random a chocolate from the box. The table shows the probability of Debbie taking an Orange or a Coffee or a Caramel chocolate.

Chocolate	Probability
Orange	0.15
Coffee	0.40
Caramel	0.35
Strawberry	

- (a) Work out the probability that Debbie takes a Strawberry chocolate.

.....
(2)

- (b) Work out the probability that Debbie takes an Orange chocolate or a Coffee chocolate.

.....
(2)

(Total for Question 4 is 4 marks)

- 5 Green paint can be made by mixing yellow paint and blue paint in the ratio 2 : 3
Wendy makes 15 litres of green paint.

Work out how many litres of blue paint Wendy uses.

..... litres

(Total for Question 5 is 2 marks)

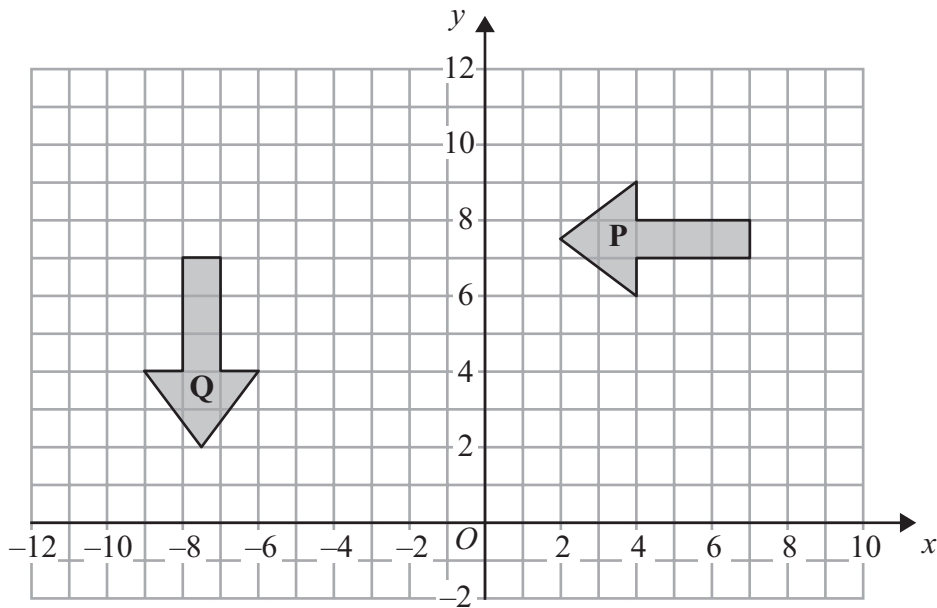
- 6 Yoko flew on a plane from Tokyo to Sydney.
 The plane flew a distance of 7800 km.
 The flight time was 9 hours 45 minutes.

Work out the average speed of the plane in kilometres per hour.

..... km/h

(Total for Question 6 is 3 marks)

7



- (a) Describe fully the single transformation that maps shape **P** onto shape **Q**.

.....

(3)

- (b) On the grid, translate shape **P** by the vector $\begin{pmatrix} -6 \\ 2 \end{pmatrix}$
 Label the new shape **R**.

(2)

(Total for Question 7 is 5 marks)

8 (a) Show that $\frac{7}{8} - \frac{5}{6} = \frac{1}{24}$

(2)

(b) Show that $\frac{5}{8} \div \frac{7}{12} = 1\frac{1}{14}$

(2)

(Total for Question 8 is 4 marks)

9 Solve $7y - 6 = 2y + 8$

Show clear algebraic working.

$y = \dots\dots\dots$

(Total for Question 9 is 3 marks)

10 Express 204 as a product of its prime factors.

.....
(Total for Question 10 is 3 marks)

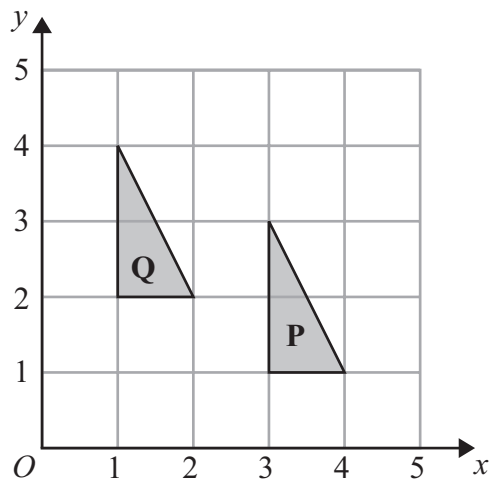
- 11 There are 20 students in a class.
12 of the students are girls.

Find the ratio of the number of girls to the number of boys.
Give your ratio in the form $n : 1$

..... : 1

(Total for Question 11 is 2 marks)

12



Describe fully the single transformation which maps triangle P onto triangle Q.

.....

.....

(Total for Question 12 is 2 marks)

13 (i) Solve the inequalities $3 \leq x + 4 < 7$

.....

(ii) n is an integer.

Write down all the values of n which satisfy $3 \leq n + 4 < 7$

.....

(Total for Question 13 is 4 marks)

14

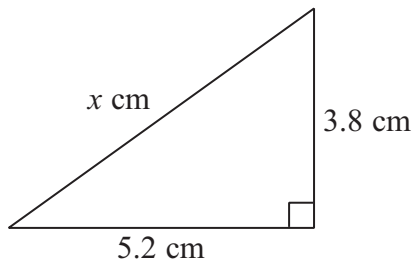


Diagram **NOT** accurately drawn

Calculate the value of x .
Give your answer correct to 3 significant figures.

$x =$

(Total for Question 14 is 3 marks)
