Bronze Level

Question Paper 8

Level	IGCSE
Subject	Maths
Exam Board	Edexcel
Difficulty Level	Bronze
Booklet	Question Paper 8

Time Allowed: **59 minutes**

Score: **/49**

Percentage: **/100**

Grade Boundaries:

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

1 Here is a list of the ingredients needed to make leek and potato soup for 6 people.

Leek and Potato Soup
Ingredients for 6 people
900 ml chicken stock 900 ml water 750 g leeks 350 g potatoes 350 g onions

(a) Ainsley wants to make leek and potato soup for 13 people.

Work out the amount of chicken stock he needs.

.... ml

(2)

(b) Delia makes leek and potato soup for a group of people.
She uses 1250 g of leeks.

Work out the number of people in the group.

....

(2)

(Total for Question 1 is 4 marks)

2 A plane flew from Frankfurt to Hong Kong.
The flight time was 10 hours 45 minutes.
The average speed was 852 km/h.

Work out the distance the plane flew.

.... km

(Total for Question 2 is 3 marks)

3 (a) Simplify $5c \times 4c$

....

(1)

(b) Factorise $4x + x^2$

....

(2)

(c) Work out the value of $y^3 + 5y$ when $y = 2$

....

(2)

(Total for Question 3 is 5 marks)

4 (a)
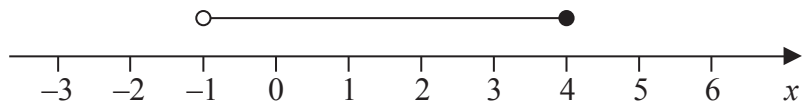
An inequality is shown on the number line.

Write down this inequality.

....

(2)

(b) (i) Solve the inequality $2(y - 3) \geqslant 1$

....

(ii) Write down the lowest **integer** which satisfies this inequality.

....

(4)

(Total for Question 4 is 6 marks)

5
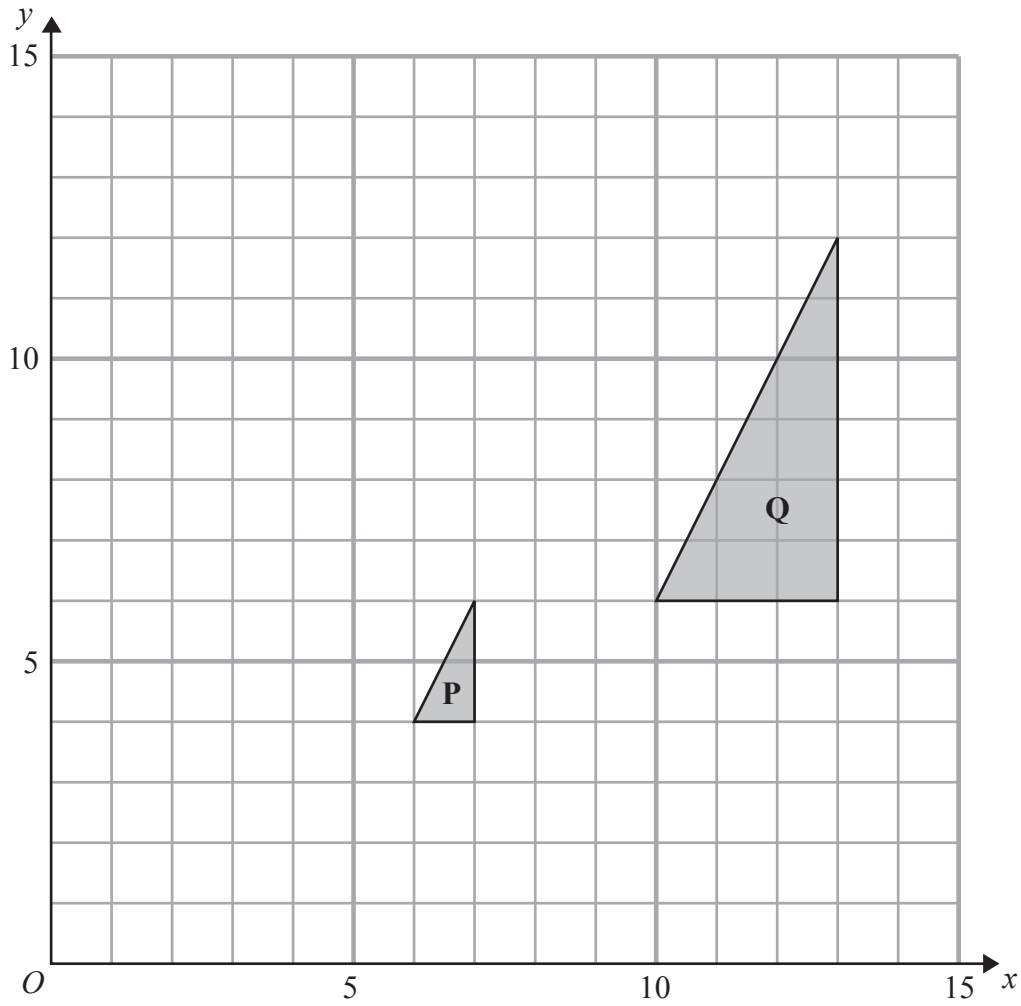
(a) Describe fully the single transformation which maps triangle **P** onto triangle **Q**.

....

....

(3)

(b) On the grid, translate triangle **Q** by the vector $\begin{pmatrix} -8 \\ 2 \end{pmatrix}$

Label the new triangle **R**.

(1)

(c) Describe fully the single transformation which maps triangle **R** onto triangle **P**.

....

....

(2)

(Total for Question 5 is 6 marks)

6 The table shows information about the number of goals scored in each of the 25 matches in a hockey tournament.

Number of goals	Number of matches
1	6
2	8
3	7
4	3
5	1

Work out the mean number of goals.

....

(Total for Question 6 is 3 marks)

7 The ratio of Mark's age to Reeta's age is 3 : 5
Mark's age is 24 years.

(a) Work out Reeta's age.

.... years

(2)

The ratio of John's age to Zahra's age is 1 : 4
The sum of their ages is 45 years.

(b) Work out Zahra's age.

.... years

(2)

(Total for Question 7 is 4 marks)

8

Diagram **NOT** accurately drawn

$x°$

The diagram shows a regular 5-sided polygon.
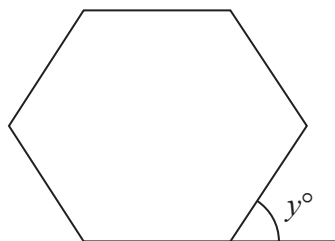
(a) Work out the value of x.

$x =$ ....
(2)

Diagram **NOT** accurately drawn

$y°$

The diagram shows a regular 6-sided polygon.

(b) Work out the value of y.

$y =$ ....
(2)

(Total for Question 8 is 4 marks)

9 (a) Factorise $t^2 + 6t$

....
(2)

(b) Solve $7x - 5 = 5x - 4$
Show clear algebraic working.

$x =$ ....
(3)

(c) Expand and simplify fully $4(2y + 3) + 2(y - 6)$

....
(2)

(Total for Question 9 is 7 marks)

10 $\mathscr{E}$ = {even numbers}
A = {factors of 8}
B = {factors of 20}

List the members of $A \cap B$

....

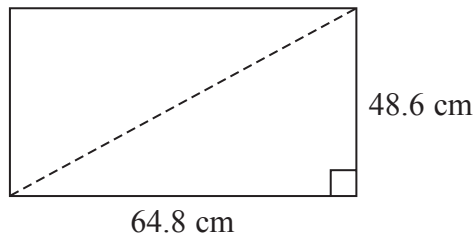**(Total for Question 10 is 2 marks)**

11

Diagram **NOT**
accurately drawn

48.6 cm

64.8 cm

A TV screen is rectangular.
The width of the rectangle is 64.8 cm and the height is 48.6 cm.
The length of a diagonal of the rectangle gives the 'size' of the TV screen.
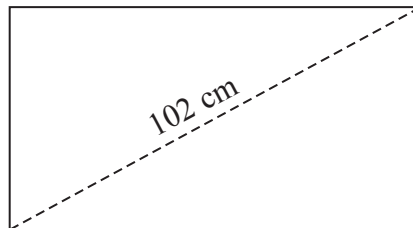
(a) Calculate the 'size' of the TV screen.

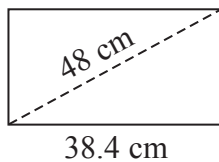........................... cm

(3)

48 cm

38.4 cm

102 cm

Diagram **NOT**
accurately drawn

The diagram shows two rectangular TV screens.
The rectangles are similar.
The 'size' of the smaller screen is 48 cm.
The width of the smaller screen is 38.4 cm.
The 'size' of the larger screen is 102 cm.

(b) Calculate the width of the larger TV screen.

.... cm

(2)

(Total for Question 11 is 5 marks)