Bronze Level

Question Paper 15

Level	IGCSE
Subject	Maths
Exam Board	Edexcel
Difficulty Level	Bronze
Booklet	Question Paper 15

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%

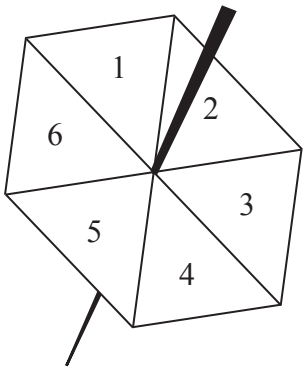
1 Pritam, Sarah and Emily share some money in the ratios 3 : 6 : 4
Sarah gets $15 more than Emily.

Work out the amount of money that Pritam gets.

$ .....

(Total for Question 1 is 3 marks)

2 Becky has a biased 6-sided spinner.
She spins the spinner 25 times.
She records the score for each spin.
The table shows information about her scores.



Score	Frequency
1	9
2	6
3	3
4	2
5	1
6	4

(a) Find her median score.

.....

(2)

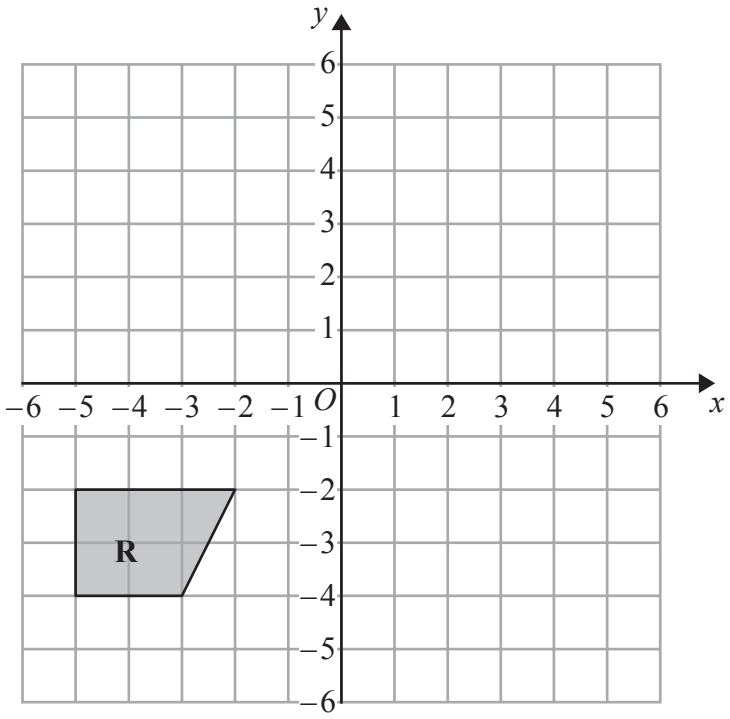
(b) Work out her mean score.

.....

(3)

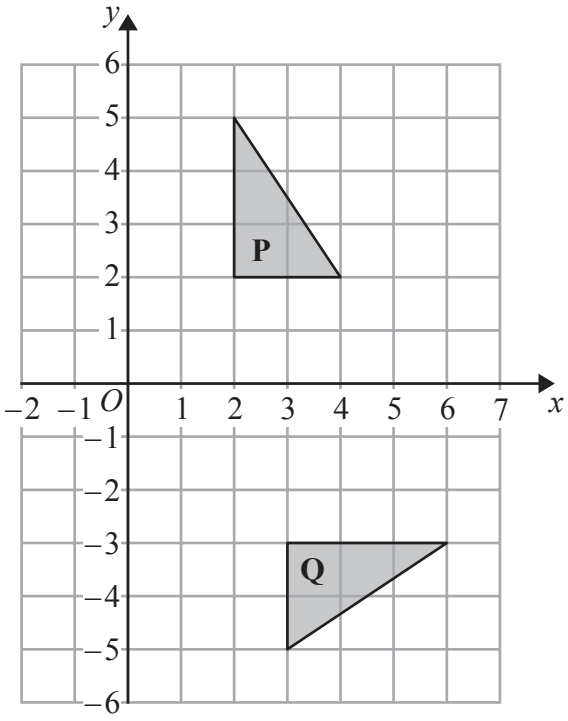
(Total for Question 2 is 5 marks)

3



(a) On the grid above, reflect shape **R** in the line $y = -x$

(2)



(b) Describe fully the single transformation that maps triangle **P** onto triangle **Q**.

.....

.....

(3)

(Total for Question 3 is 5 marks)

4 (a) Expand $6(4 - 3y)$

.....

(1)

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

.....

(1)

(c) Solve $7x + 8 = 2x - 3$
Show clear algebraic working.

$x =$ .....

(3)

(d) Expand and simplify $(y + 10)(y - 2)$

.....

(2)

(e) Factorise fully $20e^5f^2 - 16e^2f$

.....

(2)

(Total for Question 4 is 9 marks)

5

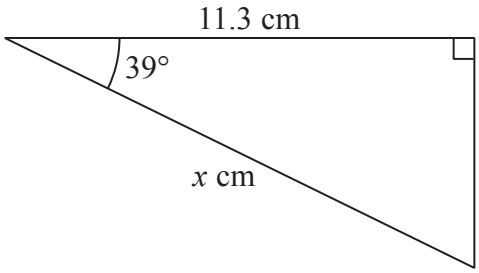


Diagram **NOT** accurately drawn

Work out the value of x.
Give your answer correct to 2 decimal places.

$x =$ .....

(Total for Question 5 is 3 marks)

6 $S = \{c, h, i, n, a\}$ $V = \{i, t, a, l, y\}$

List the elements of the set

(i) $S \cap V$

.....

(ii) $S \cup V$

.....

(Total for Question 6 is 2 marks)

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7 The distance from Kyoto to Hakata is 638 kilometres.
The train journey from Kyoto to Hakata takes 2 hours 45 minutes.

Work out the average speed, in kilometres per hour, of the train from Kyoto to Hakata.

..... km/h

(Total for Question 7 is 3 marks)

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8 The table shows the probabilities of people in Wales being in blood group O or in blood group A or in blood group AB.

Blood group	Probability
O	0.44
A	0.42
B	
AB	0.04

All people in Wales are in exactly one of the blood groups O, A, B or AB.

A person is selected at random from the people in Wales.

(a) Find the probability that this person is in blood group B.

.....

(2)

(b) Find the probability that this person is in blood group O or A.

.....

(1)

There are 1200 students in Aled's school.
Aled's school is in Wales.

(c) Work out an estimate for the number of pupils in Aled's school who are in blood group AB.

.....

(2)

(Total for Question 8 is 5 marks)

9 The diagram shows two points S and T.
The bearing of T from S is 043°

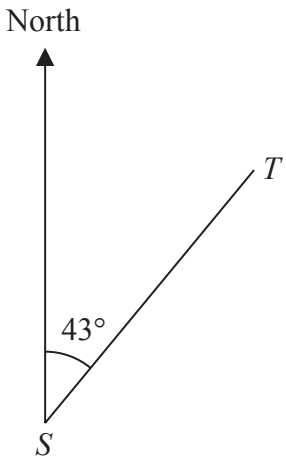

Diagram **NOT** accurately drawn

Work out the bearing of S from T.

.....°

(Total for Question 9 is 2 marks)

10

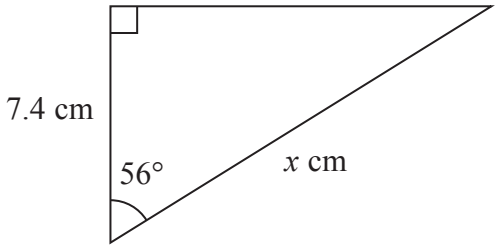

Diagram **NOT** accurately drawn

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

$x =$ .....

(Total for Question 10 is 3 marks)

11 Here is a list of the ingredients needed to make lentil soup for 6 people.

Lentil Soup (for 6 people)
120 g lentils 300 g carrots 800 ml vegetable stock 3 onions

Jenny wants to make lentil soup for 24 people.

(a) Work out the amount of vegetable stock she needs.

..... ml

(2)

Ravi is going to make lentil soup.
He uses 450 g of carrots.

(b) How many people is Ravi making the lentil soup for?

.....

(2)

(Total for Question 11 is 4 marks)

12 Lizzy drove by car to visit her aunt.
She left home at 930 am.

Lizzy arrived at her aunt's house at 1115 am.
She drove a distance of 140 km.

Work out, in km/h, Lizzy's average speed for the journey.

..... km/h

(Total for Question 12 is 3 marks)

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13 Show that $\frac{3}{8} \div \frac{7}{12} = \frac{9}{14}$

(Total for Question 13 is 2 marks)