

# Bronze Level

## Question Paper 6

Level	IGCSE
Subject	Maths
Exam Board	Edexcel
Difficulty Level	Bronze
Booklet	Question Paper 6

**Time Allowed:** 54 minutes

**Score:** /45

**Percentage:** /100

Grade Boundaries:

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

1 (a) Factorise  $n^2 + 8n$

.....  
(2)

(b) Expand and simplify  $3(2x - 5)(x + 3)$

.....  
(2)

(c) Expand and simplify  $(y + 7)(y + 2)$

.....  
(2)

**(Total for Question 1 is 6 marks)**

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2

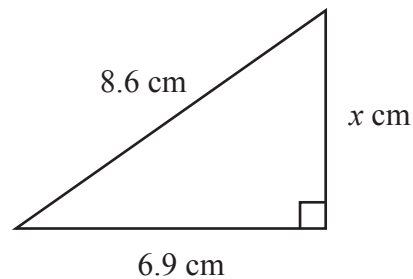


Diagram **NOT**  
accurately drawn

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

$x =$  .....

**(Total for Question 2 is 3 marks)**

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- 3 Solve  $3x + 16 = 1 - 2x$   
Show clear algebraic working.

$x = \dots\dots\dots$

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(Total for Question 3 is 3 marks)

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- 4 Jack, Kate and Lila share some money in the ratios 5 : 9 : 6  
In total, Jack and Kate receive £56  
Work out the amount of money Lila receives.

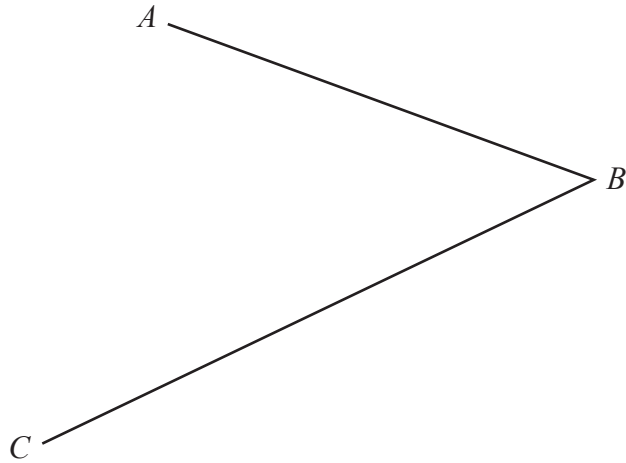
£ $\dots\dots\dots$

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(Total for Question 4 is 3 marks)

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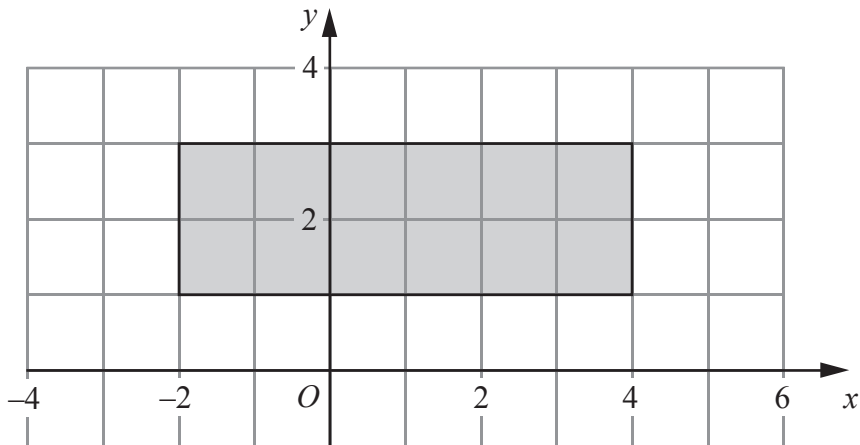
- 5 Use ruler and compasses to construct the bisector of angle  $ABC$ .  
You must show all your construction lines.



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(Total for Question 5 is 2 marks)

6



Write down inequalities to fully define the shaded region.

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(Total for Question 6 is 3 marks)

7 (a) Simplify  $\frac{5x^5y^6}{x^2y^4}$

.....  
(2)

(b) Simplify  $(2n^4)^3$

.....  
(2)

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**(Total for Question 7 is 4 marks)**

- 8 The table shows information about the mark scored on an examination question by each of 40 students.

Mark	Number of students
0	13
1	2
2	3
3	8
4	14

Work out the mean mark.

.....  

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**(Total for Question 8 is 3 marks)**

9 (a) Work out the value of  $\frac{\sqrt{7.4}}{9.8 - 2.1}$

Give your answer as a decimal.

Write down all the figures on your calculator display.

.....  
(2)

(b) Give your answer to part (a) correct to 2 significant figures.

.....  
(1)

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(Total for Question 9 is 3 marks)

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10 (a) Multiply out  $6(n - 2)$

.....  
(1)

(b) Factorise  $p^2 - 5p$

.....  
(2)

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

Show clear algebraic working.

$x =$ .....  
(3)

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(Total for Question 10 is 6 marks)

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11  $S = \{s, q, u, a, r, e\}$   
 $V = \{a, e, i, o, u\}$

List the members of the set

(i)  $S \cap V$

.....

(ii)  $S \cup V$

.....

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**(Total for Question 11 is 2 marks)**



- 12 A box contains some coloured cards.  
Each card is red or blue or yellow or green.  
The table shows the probability of taking a red card or a blue card or a yellow card.

Card	Probability
Red	0.3
Blue	0.35
Yellow	0.15
Green	

George takes at random a card from the box.

- (a) Work out the probability that George takes a green card.

.....  
(2)

George replaces his card in the box.  
Anish takes a card from the box and then replaces the card.  
Anish does this 40 times.

- (b) Work out an estimate for the number of times Anish takes a yellow card.

.....  
(2)

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(Total for Question 12 is 4 marks)

- 13** Wendy travelled on the Eurostar train from St Pancras station to the Gare du Nord station. The Eurostar train travelled a distance of 495 km. The journey time was 2 hours 15 minutes.

Work out the average speed of the Eurostar train in kilometres per hour.

..... km/h

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**(Total for Question 13 is 3 marks)**