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 $3(2x + 5) + 4(x + 3)$

.....

(2)

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

.....

(2)

(Total for Question 1 is 6 marks)

2

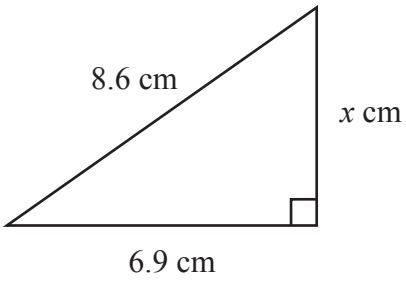

Diagram **NOT** accurately drawn

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.

$x =$.....

(Total for Question 3 is 3 marks)

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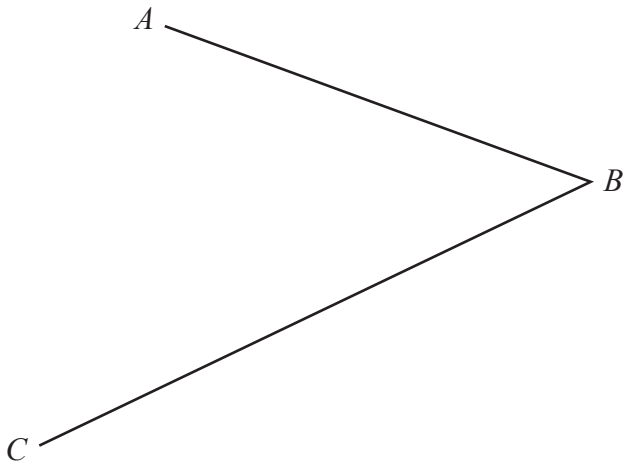
4 Jack, Kate and Lila share some money in the ratios 5 : 9 : 6
In total, Jack and Kate receive £56

Work out the amount of money Lila receives.

£.....

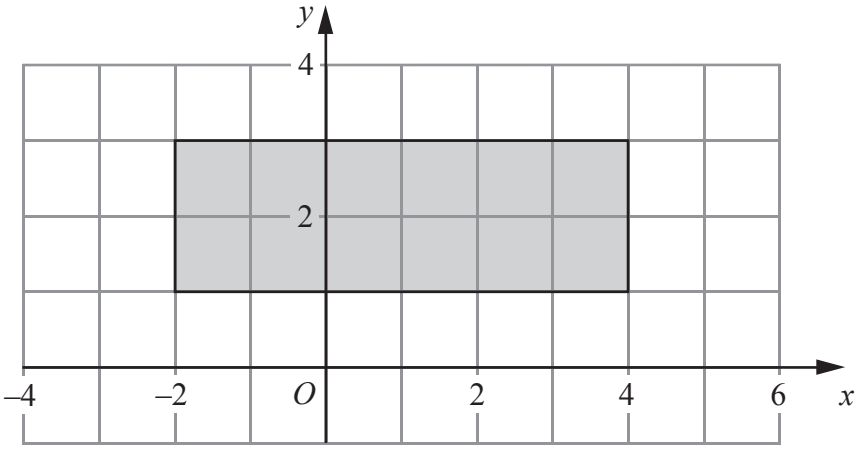
(Total for Question 4 is 3 marks)

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



(Total for Question 5 is 2 marks)

6



Write down inequalities to fully define the shaded region.

(Total for Question 6 is 3 marks)

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

.....

(2)

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

.....

(2)

(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.

.....

(Total for Question 8 is 3 marks)

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

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)

(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 $\dfrac{7x - 3}{2} = x$

Show clear algebraic working.

$x =$.....

(3)

(Total for Question 10 is 6 marks)

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) $S \cup V$

.....

(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)

(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

(Total for Question 13 is 3 marks)