

# Bronze Level

## Question Paper 17

Level	IGCSE
Subject	Maths
Exam Board	Edexcel
Difficulty Level	Bronze
Booklet	Question Paper 17

**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%

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- 1 The lengths of the sides of a triangle are in the ratios 2 : 6 : 7  
The length of the longest side of the triangle is 24.5 cm.

Work out the perimeter of the triangle.

.....cm

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**(Total for Question 1 is 3 marks)**

2 Solve the simultaneous equations

$$5x + y = 17$$

$$x + y = 3$$

Show clear algebraic working.

$$x = \dots\dots\dots$$

$$y = \dots\dots\dots$$

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

3 Here is a list of ingredients needed to make 16 cookies.

Ingredients for 16 cookies
120 g butter
150 g sugar
240 g flour
170 g chocolate
1 egg

Max wants to make 40 cookies.

(a) How much flour does Max need?

..... 8  
(2)

Abby made cookies to sell at a school fair.  
She used 600 g of butter.

(b) How many cookies did she make?

.....  
(2)

(c) Find the ratio of the weight of sugar to the weight of flour in the list of ingredients.  
Give your answer in the form 1:  $n$

1 : .....  
(2)

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(Total for Question 3 is 6 marks)

4

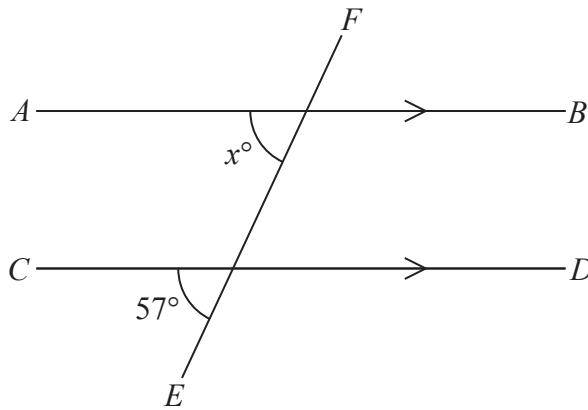


Diagram **NOT** accurately drawn

$AB$  is parallel to  $CD$   
 $EF$  is a straight line.

(a) (i) Find the value of  $x$

$x = \dots\dots\dots$

(ii) Give a reason for your answer.

.....  
 .....

(2)

Here is a pentagon.

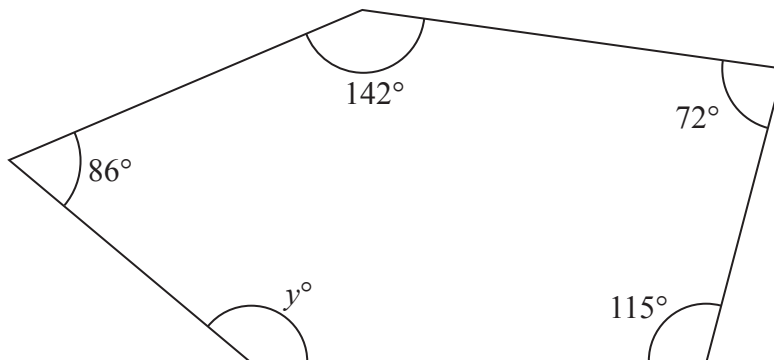


Diagram **NOT** accurately drawn

(b) Work out the value of  $y$ .

$y = \dots\dots\dots$

(3)

**(Total for Question 4 is 5 marks)**

5 Show that  $\frac{3}{4} + \frac{4}{5} = 1\frac{11}{20}$

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**(Total for Question 5 is 2 marks)**

- 6  $\mathcal{E} = \{\text{whole numbers}\}$   
 $A = \{\text{factors of 100}\}$   
 $B = \{\text{multiples of 5}\}$   
List the members of the set  $A \cap B$

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**(Total for Question 6 is 2 marks)**

7 Ying eats some yoghurt.

The yoghurt contains 192 mg of calcium.

This is 16% of the total amount of calcium that Ying should have each day.

Work out the total amount of calcium that Ying should have each day.



..... mg

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**(Total for Question 7 is 3 marks)**

8 A plane flew from Bogotá to Quito.

The distance the plane flew was 725 km.

The time taken by the plane was 1 hour 24 minutes.

Work out the average speed of the plane.

Give your answer correct to 3 significant figures.

..... km/h

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

9 Make  $g$  the subject of  $3e + 4g = 7 + 9eg$

.....  
**(Total for Question 9 is 3 marks)**

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10 Here are the ingredients needed to make 12 muffins.

Ingredients to make 12 muffins
300 g flour
150 g sugar
250ml milk
100 g butter
2 eggs

Sarah makes 60 muffins.

(a) Work out how much sugar she uses.

..... 8  
(2)

James makes some muffins.

He uses 625 ml of milk.

(b) How many muffins did he make?

.....  
(2)

**(Total for Question 10 is 4 marks)**

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11 The table shows information about the number of visits each of 40 adults made to the gym last week.

Number of visits to the gym	Frequency
0	4
1	3
2	12
3	5
4	8
5	5
6	2
7	1

Work out the mean of the number of visits to the gym.

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(Total for Question 11 is 3 marks)

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12  $A = \{2, 4, 6, 8, 10, 12, 14\}$

$B = \{1, 3, 5, 7, 9, 11, 13\}$

$C = \{3, 6, 9, 12\}$

(a) List the members of the set

(i)  $A \cap C$

.....

(ii)  $A \cup C$

.....  
(2)

(b) Explain why  $A \cap B = \emptyset$

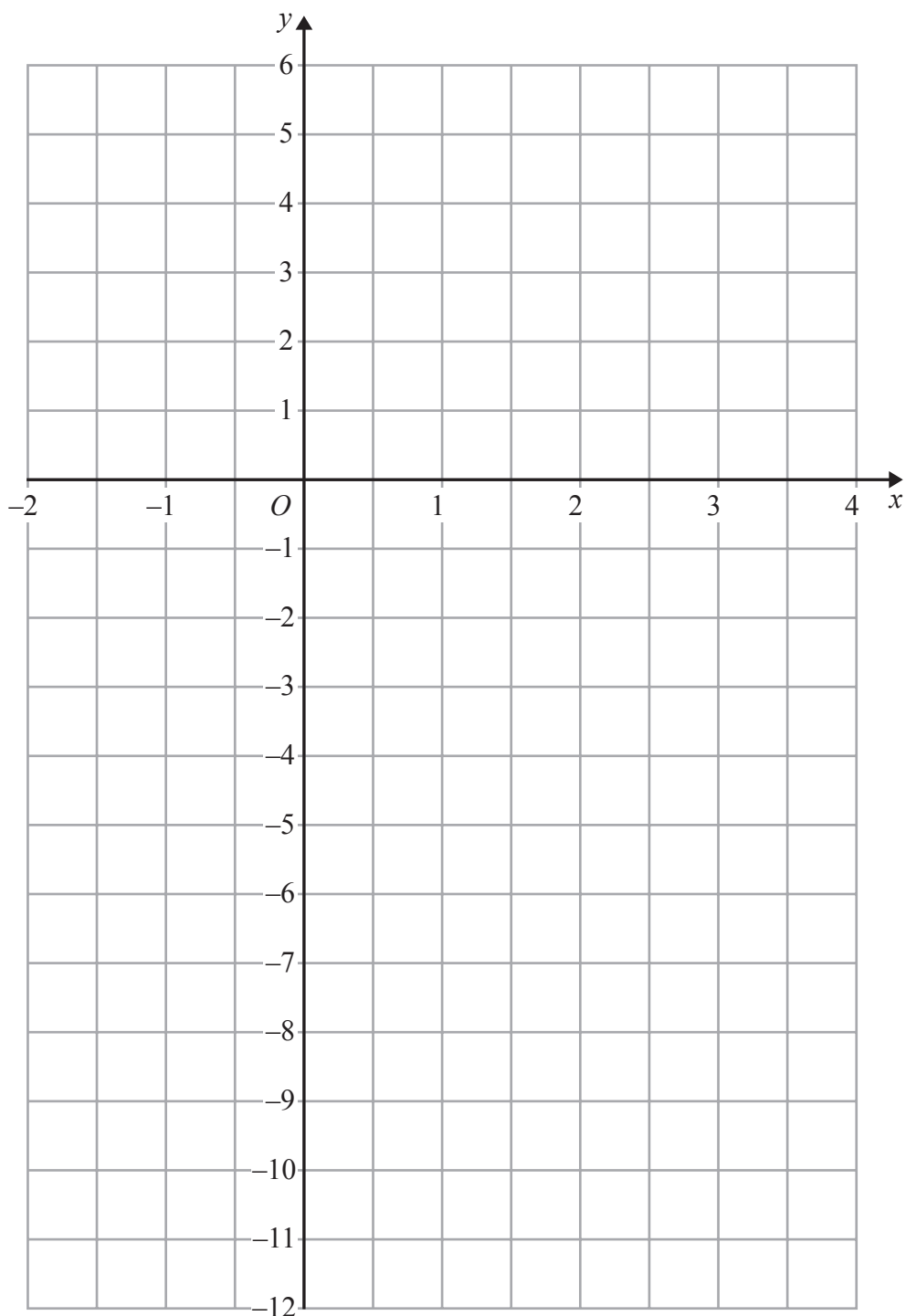
.....  
(1)

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(Total for Question 12 is 3 marks)

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13 On the grid, draw the graph of  $y = 3x - 5$  for values of  $x$  from  $-2$  to  $3$



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(Total for Question 13 is 4 marks)

14 (a) Show that  $\frac{3}{10} + \frac{2}{15} = \frac{13}{30}$

(2)

(b) Show that  $2\frac{5}{8} \div 1\frac{1}{6} = 2\frac{1}{4}$

(3)

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**(Total for Question 14 is 5 marks)**