



Class
Maths

Video Solutions



PRACTICE PAPER FOR

AQA Paper 2F (June 2024)

----- Disclaimer -----

This paper has been created based on the **most common** paper 2/3 topics from previous years and also careful analysis of what topics have already appeared in paper 1. The paper should be excellent at helping students revise for exams, however should not be relied upon as the basis for revision. The topics from this paper may well appear in the real exams, however there is absolutely no guarantee of this. Some topics may appear, some may not. Anybody giving you any sort of guarantee is misleading you. If any topics or questions from this paper do come up, this is just lucky guessing and nothing more. 😊

Ultimately the best way to prepare for the exams is to **revise all topics**.

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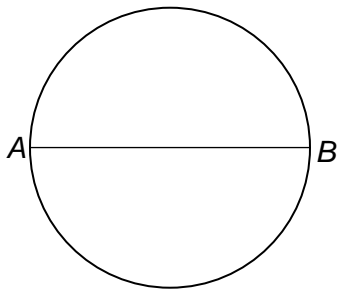


Answer **all** questions in the spaces provided.

1 Write down the value of the digit 4 in the number 3421 [1 mark]

Answer _____

2 Line AB goes through the centre of the circle.
Write down the name of the line AB . [1 mark]



Answer _____

3 Write 0.13 as a fraction. [1 mark]

Answer _____





Do not write
outside the
box

4 Write down all the factors of 30 [2 marks]

Answer _____

5 (a) Simplify $b \times b \times b \times b$ [1 mark]

Answer _____

5 (b) Solve $8y = 24$ [1 mark]

$y =$ _____

5 (c) Solve $\frac{x}{3} = 12$ [1 mark]

$x =$ _____

8

Turn over ►





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box

6 A bag contains 40 counters.
18 of the counters are red.
3 of the counters are blue.
The rest of the counters are green.

A counter is randomly selected from the bag.
Work out the probability that the counter is green.

[2 marks]

Answer _____

7 Work out how many minutes are in $\frac{1}{5}$ of 2 hours.

[2 marks]

Answer _____ minutes

8 There are n students in a classroom.
One of the students leaves to visit reception.
Write an expression, in terms of n , for the number of students that are now
in the classroom.

[1 mark]

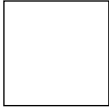
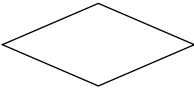
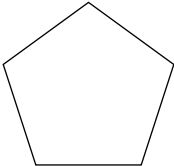
Answer _____





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9 The sides of each of the shapes in the table below are equal in length.

| Shape | Name | Number of Lines of Symmetry |
|--|--------|-----------------------------|
|  | Square | 4 |
|  | | |
|  | | |

Complete the table.

[4 marks]

10 Write $17 : 2$ in the form $n : 1$

[1 mark]

Answer _____ : 1

$\frac{\quad}{10}$

Turn over ►





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11 Complete the bank statement

[3 marks]

| Date | Description | Credit (£) | Debit (£) | Balance (£) |
|----------|------------------|------------|-----------|-------------|
| 01/05/24 | Starting Balance | | | _____ |
| 08/05/24 | Energy Bill | | 192.53 | 1419.09 |
| 28/05/24 | Salary | 1833.33 | | _____ |
| 29/05/24 | Phone Bill | | _____ | 3222.43 |

12 Claire earns £183 for 15 hours of work.
Claire receives a pay rise of 5%.

Work out Claire's pay per hour **after** the pay rise.

[3 marks]

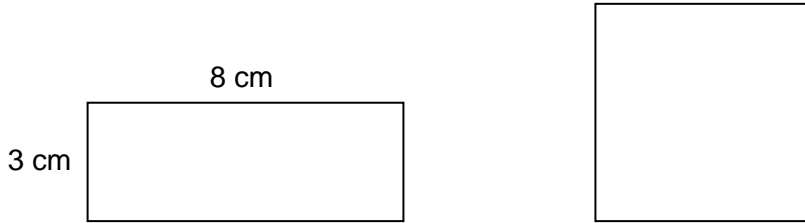
Answer £ _____ per hour





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13 Here is rectangle and a square with the same perimeter.



Work out the area of the square.

[3 marks]

Answer _____ cm²

14 Write the following in order of size.
Start with the smallest.

57% $\frac{3}{20}$ 0.06 0.4

[3 marks]

Smallest _____

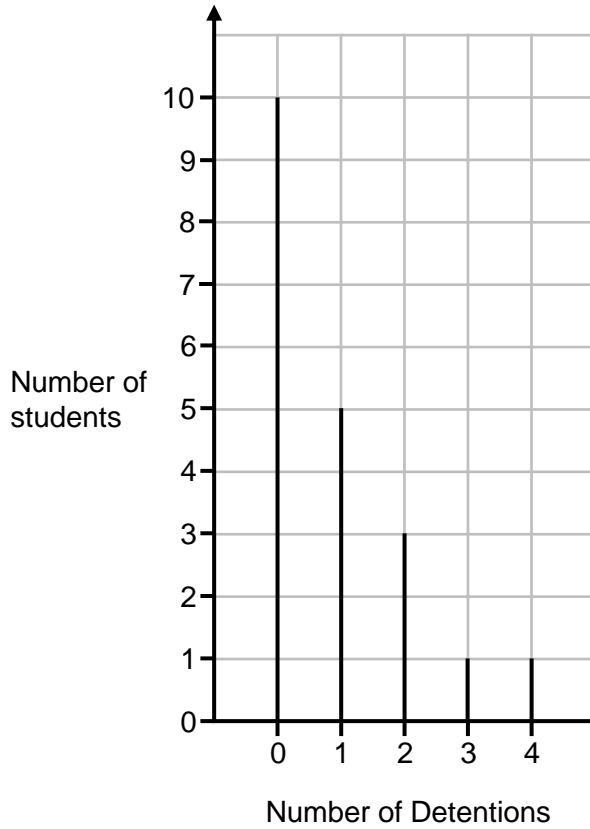
Largest _____

$\frac{1}{12}$

Turn over ►



15 A class of 20 students were asked how many detentions they had last week.



15 (a) Write down the modal number of detentions. [1 mark]

Answer _____

15 (b) Work out the total number of detentions received by all 20 students. [2 marks]

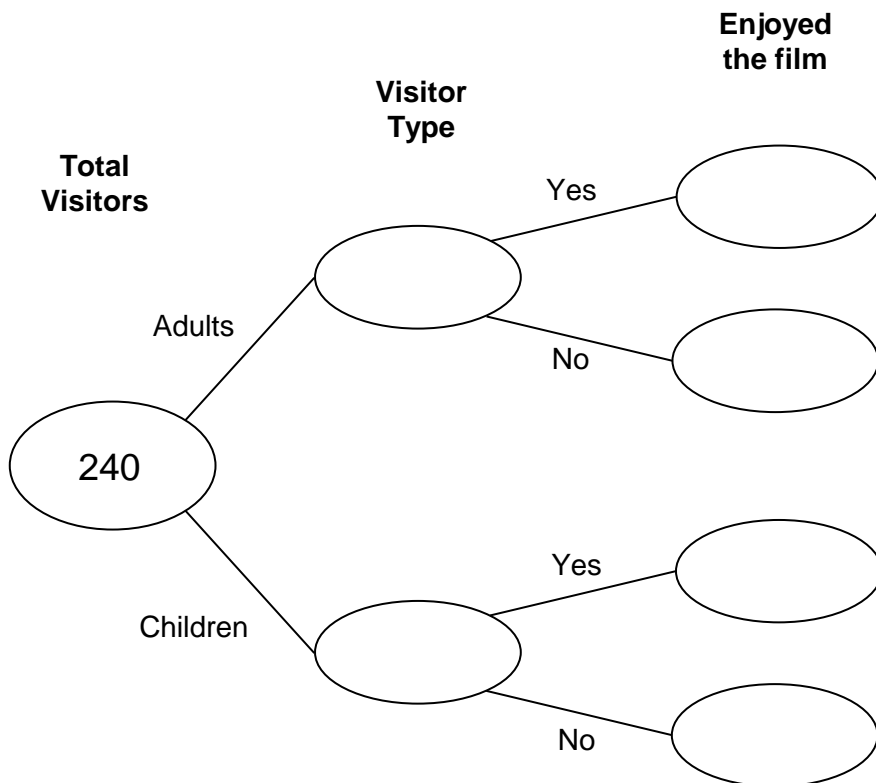
Answer _____



- 16 240 people visited a cinema.
 $\frac{3}{8}$ of the visitors were adults and the rest were children.
70% of the adults enjoyed the film.
90% of the children enjoyed the film.

16 (a) Complete the frequency tree

[4 marks]



- 16 (b) One of the visitors is selected at random to win a voucher.
Work out the probability that the winner is an adult who enjoyed the film. [2 marks]

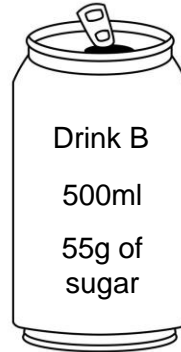
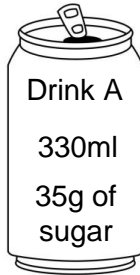
Answer _____





17

Here is some information about two fizzy drinks.



Isaac claims that drink B has a higher proportion of sugar.

Is he correct?

Tick **one** box.

Yes

No

Show working to support your answer.

[3 marks]



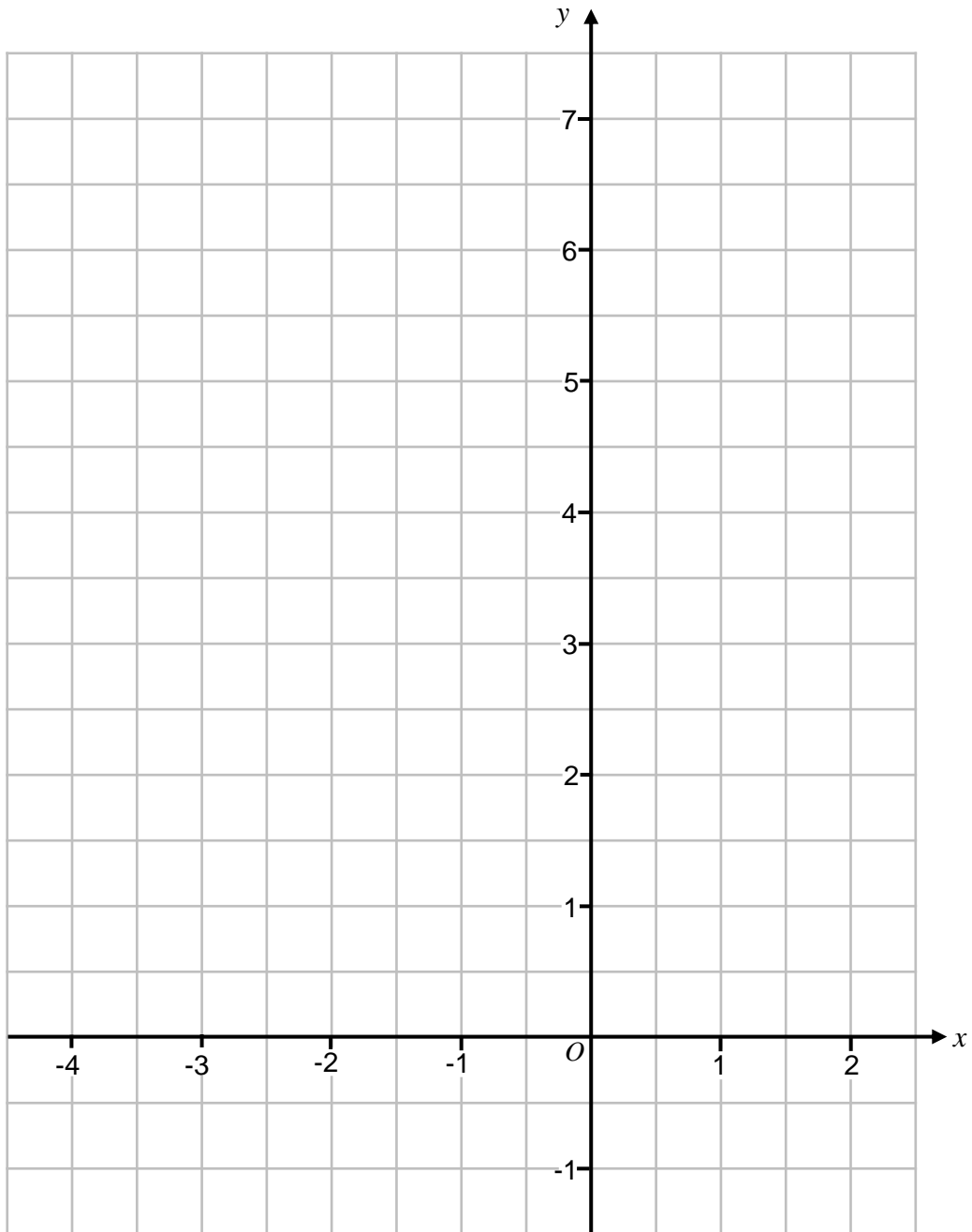


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18

On the grid, draw the graph of $y = \frac{1}{2}x + 5$ for values of x from to -4 to 2

[3 marks]



$\frac{1}{6}$

Turn over ►





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19

Work out the area of a circle with a radius of 7 cm
Give your answer to 1 decimal place.

[2 marks]

Answer _____ cm²

20

A car travels at a constant speed of 40 mph

Work out how far the car will travel in $3\frac{1}{2}$ hours

[2 marks]

Answer _____ miles





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21 Match each description on the left with a number on the right. [4 marks]
One has been done for you.

| | |
|---------------------|----|
| A multiple of 12 | 23 |
| A square number | 24 |
| A cube number | 25 |
| A prime number | 26 |
| A triangular number | 27 |
| | 28 |

Note: A line connects 'A multiple of 12' to '24'.

$\frac{\quad}{8}$

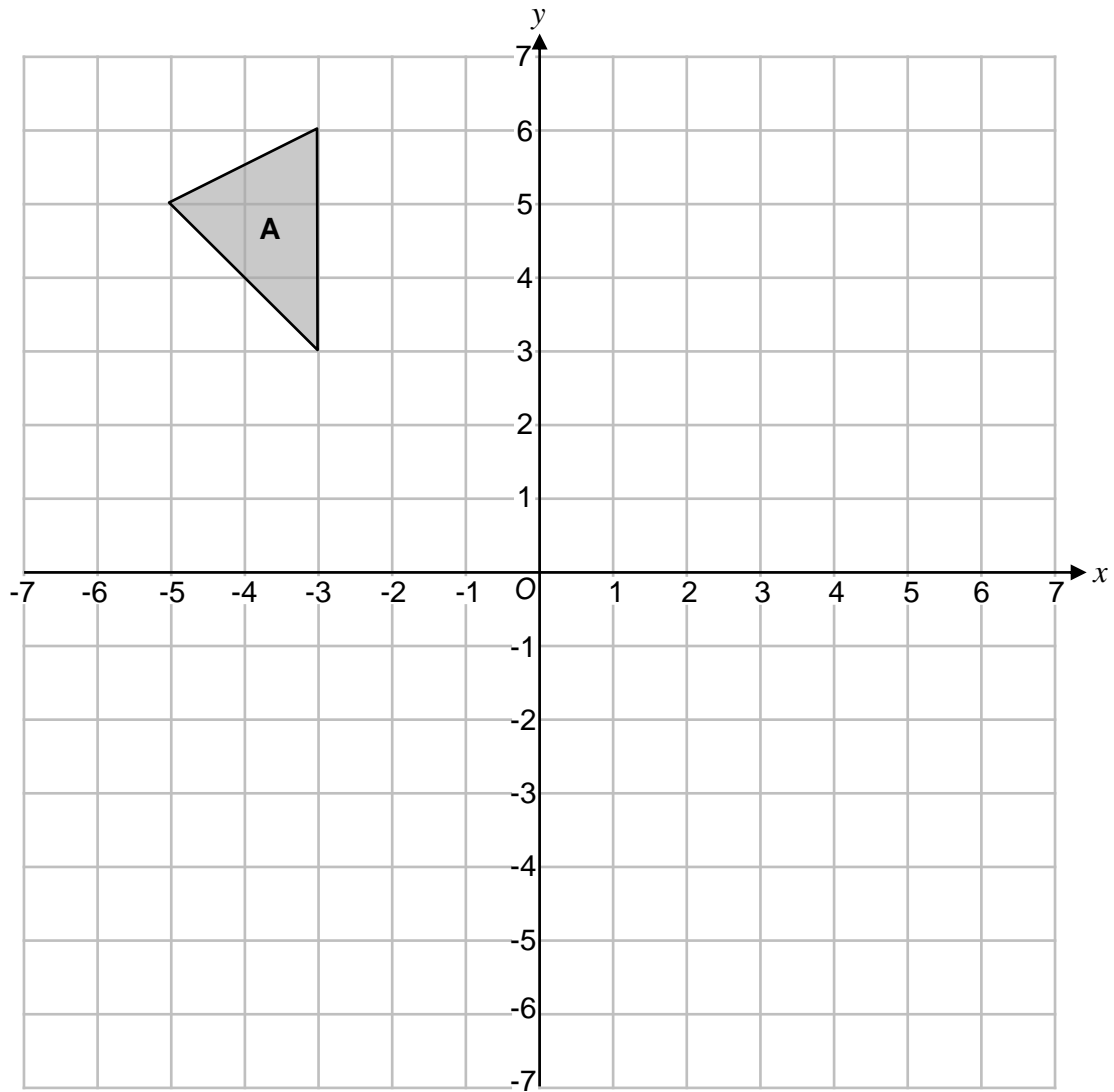
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22



22 (a) Rotate triangle **A** 180° about the point $(0, 1)$ [2 marks]
Label the image triangle **B**.

22 (a) Reflect triangle **A** in the line $x = 1$ [2 marks]
Label the image triangle **C**.





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23 A linear sequence starts
2 7 12 17

23 (a) Work out an expression for the n th term of the sequence. [2 marks]

Answer _____

23 (b) Write down the first term of the sequence that is greater than 100. [1 mark]

Answer _____

24 Work out $\frac{1.9 \times 10^{600}}{7.6 \times 10^{25}}$

Give your answer in standard form. [3 marks]

Answer _____

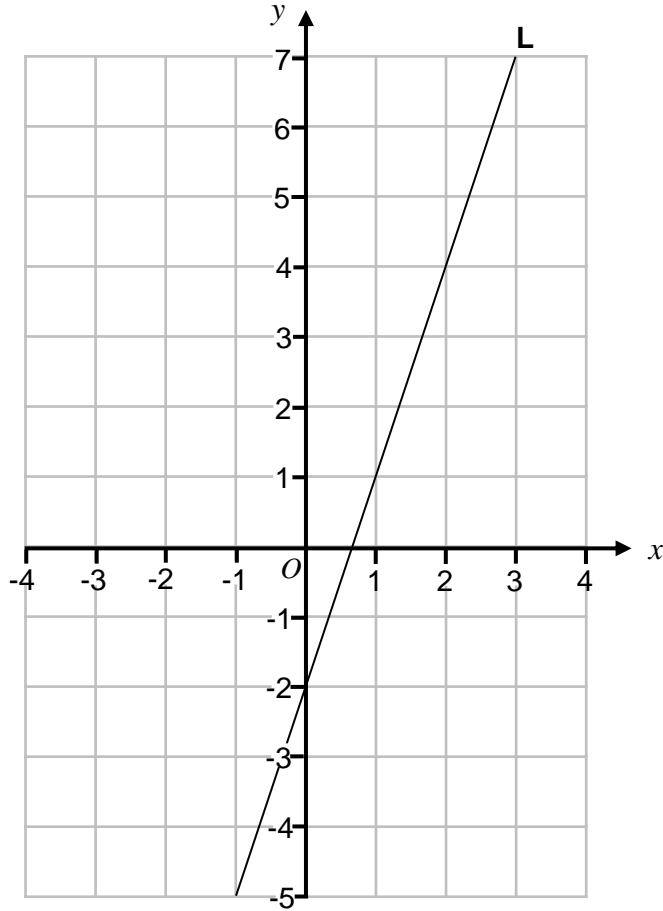
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25 The line **L** is shown on the grid.



Work out the equation of line **L**

[3 marks]

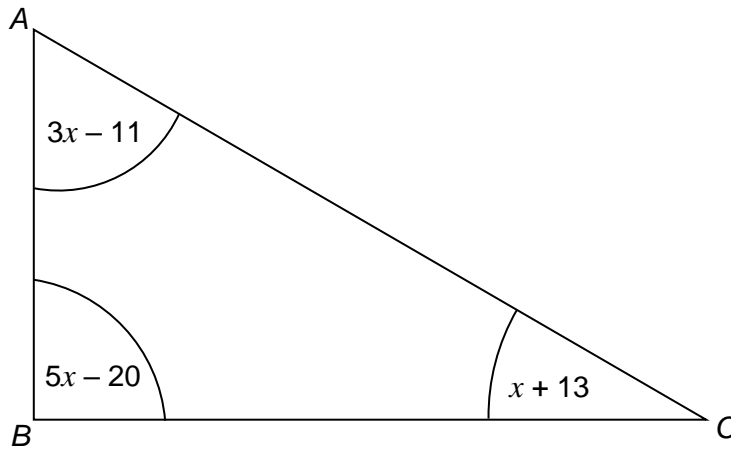
Answer _____





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26 Here is triangle ABC .



Show clearly that triangle ABC is a right-angled triangle.

[4 marks]

$\frac{7}{7}$

Turn over ►





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27 In 2024 Fiona's house was worth £250,000

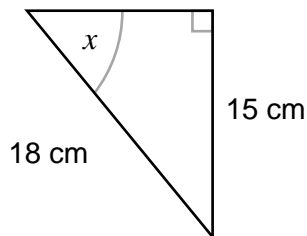
Fiona assumes house prices will increase by 2% each year for the next 3 years.

Using her assumption, work out how much Fiona's house would be worth in 2027.

[3 marks]

Answer £ _____

28 Use trigonometry to work out the size of angle x .



Not drawn
accurately

[3 marks]

Answer _____ °





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29 Expand and simplify $(x + 4)(x - 6)$

[2 marks]

Answer _____

30 Rearrange $m = 2u + p$ to make u the subject.

[2 marks]

Answer _____

END OF QUESTIONS

