



Class Maths

Video Solutions



PRACTICE PAPER FOR



AQA Paper 1F (June 2024)



----- Disclaimer -----

This paper has been created based on the **most common** paper 1 topics from previous years. Due to the nature of some topics they are better suited to paper 1 as if you had a calculator, they would no longer be difficult to do. 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 for the reasons previously mentioned. Some topics may appear, some may not.

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

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Do not write
outside the
box

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

1 Work out 50% of 50 [1 mark]

Answer _____

2 Work out $\frac{1}{5}$ of 40 [1 mark]

Answer _____

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3 Write 6% as a decimal. [1 mark]

Answer _____

4 Write 18 : 12 in its simplest form. [1 mark]

Answer _____ : _____





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5 Simplify $3x + 8y - x + 2y$ [2 marks]

Answer _____

6 (a) Work out $307 - 28$ [2 marks]

Answer _____

6 (b) Work out $2214 \div 3$ [2 marks]

Answer _____

$\frac{\quad}{10}$

Turn over ►





7 Match each calculation on the left with an answer on the right.
One has been done for you.

[4 marks]

$$4 + 2$$

$$8$$

$$(-4) \times (-2)$$

$$-8$$

$$(-4) + (-2)$$

$$6$$

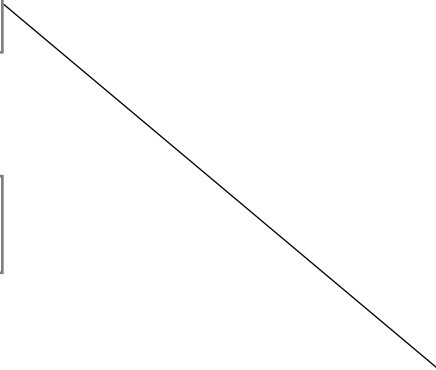
$$(-4) - (-2)$$

$$-6$$

$$(-4) \div (-2)$$

$$2$$

$$-2$$





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8 A revision website charges users a monthly subscription fee.
New users pay a lower fee for the first month.

<p style="text-align: center;">Website Subscription</p> <p style="text-align: center;">First month £1.20 (Usual Price £2.50 per month)</p>

Farheen is a new user and subscribes to the website for 1 year.

Work out the total cost of Farheen subscribing to the website for 1 year. **[3 marks]**

Answer £ _____

9 Hugh thinks of a number. His number is

- a factor of 20
- a prime number

Write down the two different numbers that Hugh could be thinking of. **[2 marks]**

Answers _____ and _____

Turn over ►





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10 Here are some units.

hours	kilograms	inches
square centimetres	miles per hour	centilitres

Write a unit from the box above to complete each of the statements below.

[3 marks]

_____ is a unit of length

_____ is a unit of capacity

_____ is a unit of mass

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

1^6

2^5

3^3

5^2

[3 marks]

Smallest _____

Largest _____





12 A bag contains only red, green and blue counters.

The table below shows the probability of selecting a counter of each colour.

Counter Colour	Red	Green	Blue
Probability	0.4	0.25	0.35

12 (a) Write down the counter colour that is most likely to be selected. [1 mark]

Answer _____

12 (b) Dawn randomly selects a counter from the bag.
The counter that Dawn selected was green.

Dawn puts the green counter back into the bag and then randomly selects another counter.

Tick the correct statement. [1 mark]

The probability that the second counter is green is less than 0.25

The probability that the second counter is green is equal to 0.25

The probability that the second counter is green is greater than 0.25

You cannot work out the probability that the second counter is green



13 (a) Write a number in the box to make the calculation correct.

[1 mark]

$$3 + \boxed{} \times 3 = 30$$

13 (b) Write a number in the box to make the calculation correct.

[1 mark]

$$\boxed{} \div 5 + 5 = 2$$

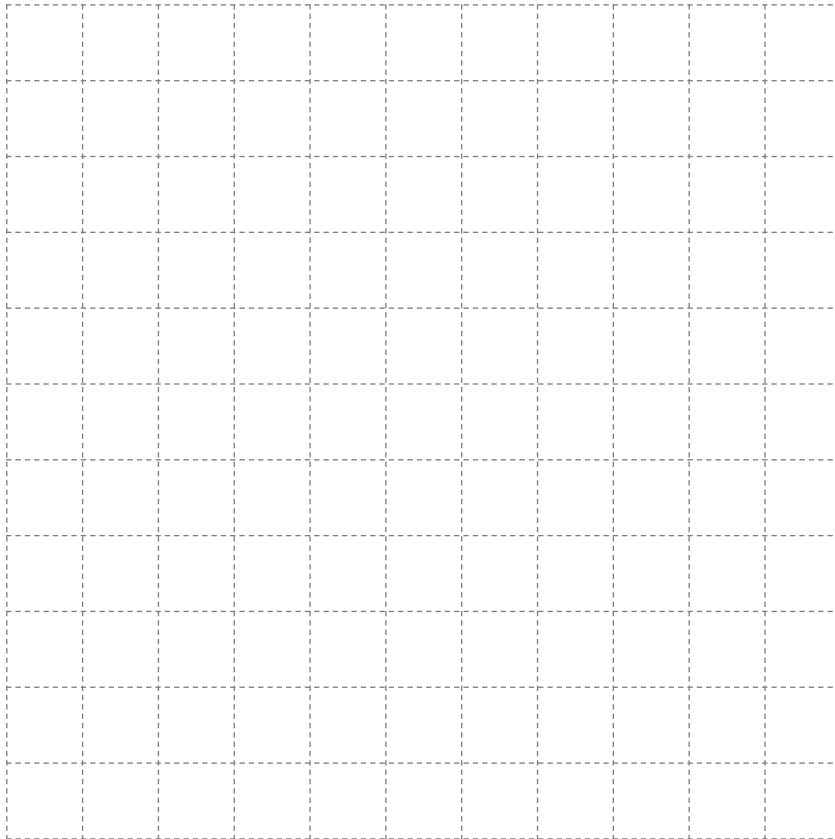
14 Draw a triangle onto the square centimetre grid below that

is an isosceles triangle

and

has an area of 20 cm²

[2 marks]

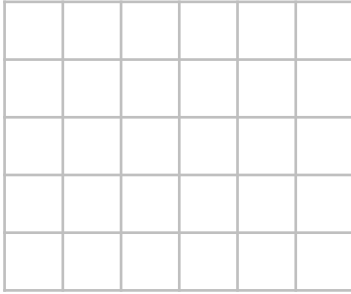




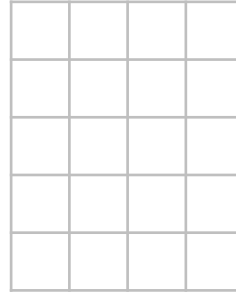
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15 Usmah shades $\frac{1}{5}$ of rectangle **A** and $\frac{1}{4}$ of rectangle **B**.

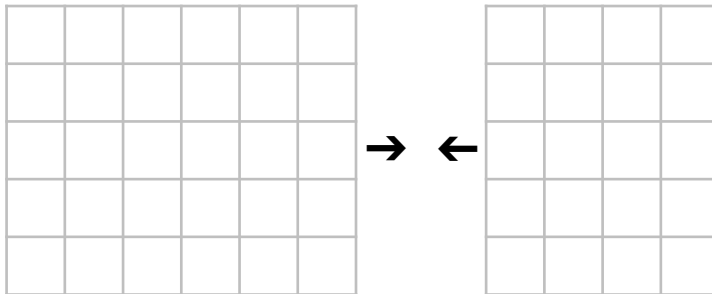
Rectangle **A**



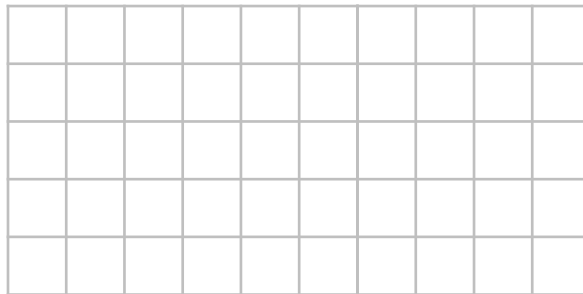
Rectangle **B**



She then joins the two rectangles as shown to make rectangle **C**.



Rectangle **C**



Work out the percentage of rectangle **C** that is shaded.

[3 marks]

Answer _____ %

$\frac{7}{7}$

Turn over ►



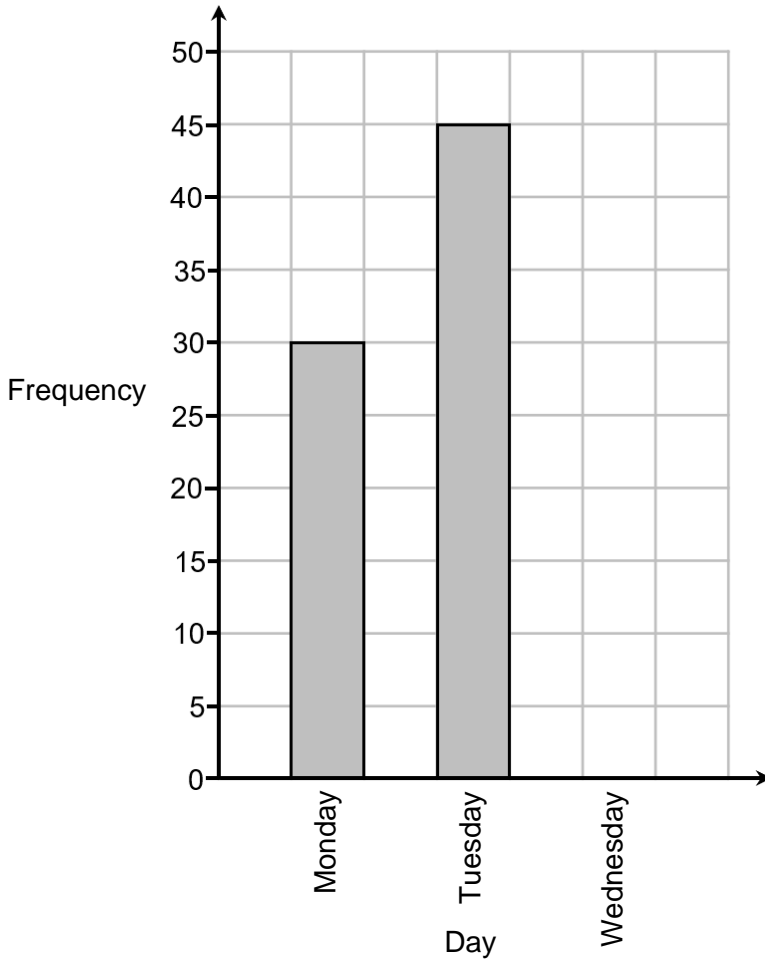
16 On Monday, Tuesday and Wednesday a bookshop sold a total of 100 books.

The incomplete pictogram and bar chart below show the number of books sold by a bookshop on Monday, Tuesday and Wednesday.

Monday	
Tuesday	
Wednesday	

Key:

represents _____ books



Complete the pictogram and the bar chart.

[4 marks]





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17 (a) Solve $4y + 12 = 60$

[2 marks]

Answer _____

17 (b) Work out the value of $5m + 2n$ when $m = 7$ and $n = -8$

[2 marks]

Answer _____

17 (c) Expand and simplify $7(h + 4) - 10h$

[2 marks]

Answer _____

17 (d) Ryan's teacher asked him to fully factorise $15x + 30$

[1 mark]

Ryan's answer is $5(3x + 6)$

Explain why Ryan's answer is not fully factorised.

Turn over ►



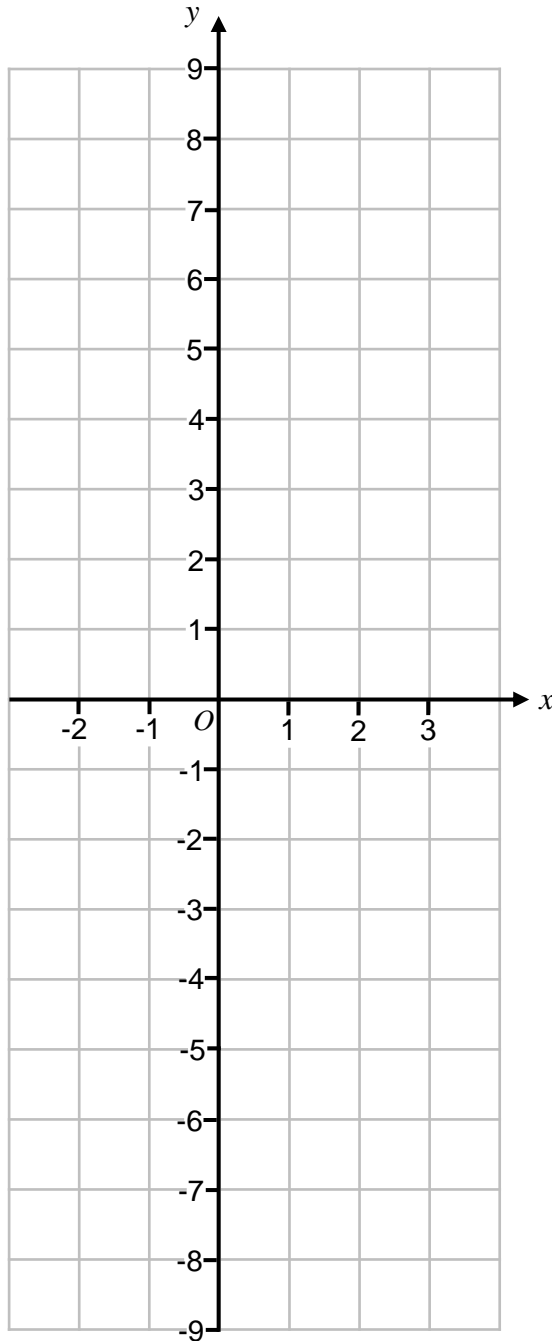


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18

On the grid, draw the graph of $y = 3x - 1$ for values of x from -2 to 3

[3 marks]





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19 The perimeter of a pentagon is 70 cm.

Work out the mean length of the sides of the pentagon.

[2 marks]

Answer _____ cm

20 Leah spends a total of 3 hours revising for her English and maths exams.

The ratio of the time that she spends revising for her English exam to the time that she spends revising for her maths exam is 2 : 7

Work out how long she spends revising for her maths exam.

Give your answer in hours and minutes.

[3 marks]

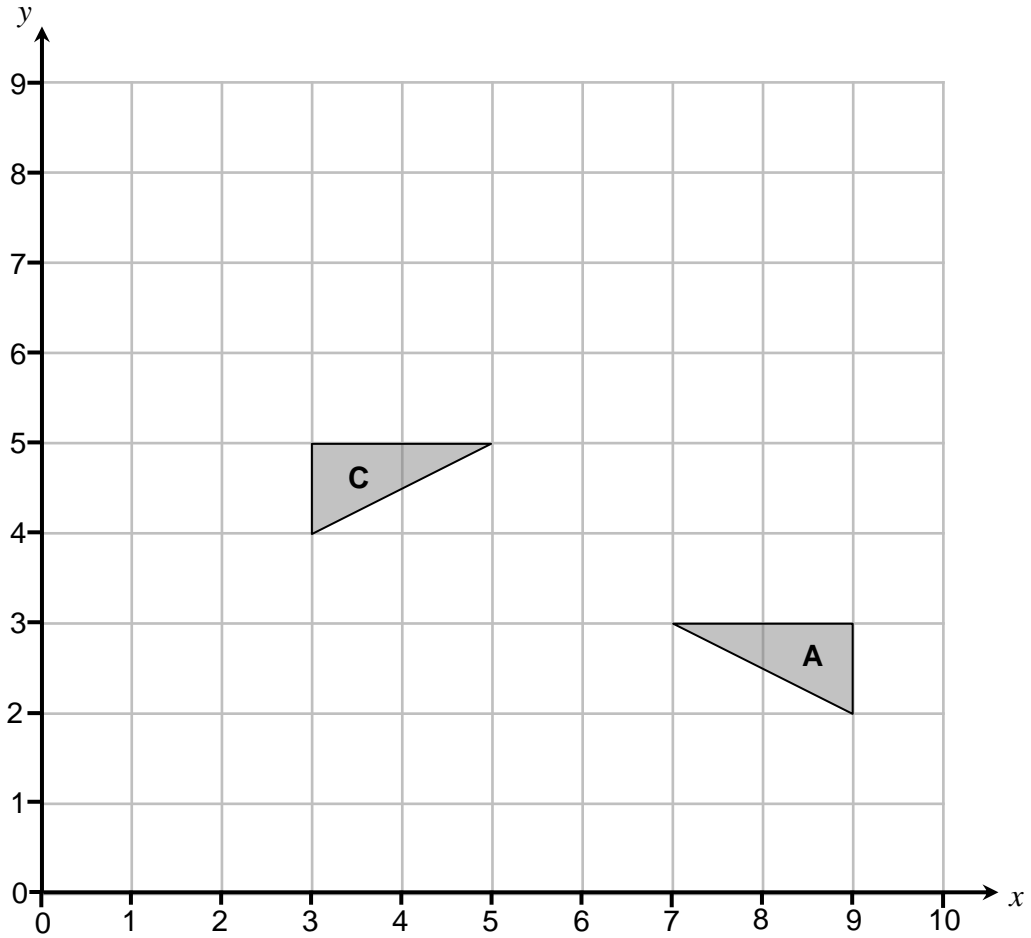
Answer _____ hours _____ minutes

8

Turn over ►



21



Triangle **A** is reflected in the line $y = 5$ to give Triangle **B**.

Triangle **B** is then transformed to triangle **C**.

Describe fully the single transformation that maps Triangle **B** to Triangle **C**.

[4 marks]





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22 Here are some fractions

$$\frac{1}{3}$$

$$\frac{1}{4}$$

$$\frac{3}{4}$$

$$\frac{9}{10}$$

22 (a) Work out the median.

[4 marks]

Answer _____

22 (b) Work out the range.

[2 marks]

Answer _____

$\frac{1}{10}$

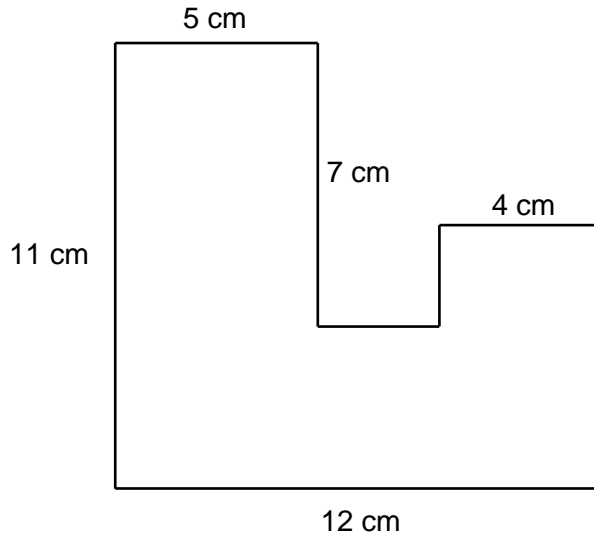
Turn over ►





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23 Here is a compound shape.



The area of the compound shape is 93 cm^2

Work out the perimeter of the compound shape.

[5 marks]

Answer _____ cm





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24 The first three terms of a sequence are shown below

8.9×10^3

9.3×10^3

9.7×10^3

Work out the fourth term of the sequence.
Give your answer in standard form.

[2 marks]

Answer _____

25 The area of a circle is $36\pi \text{ cm}^2$

Work out the circumference of the circle.
Give your answer in terms of π .

[2 marks]

Answer _____ cm



Turn over ►





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26 Write down the value of $\sin 90^\circ$

[1 mark]

Answer _____

27 Simplify $(2k^5)^4$

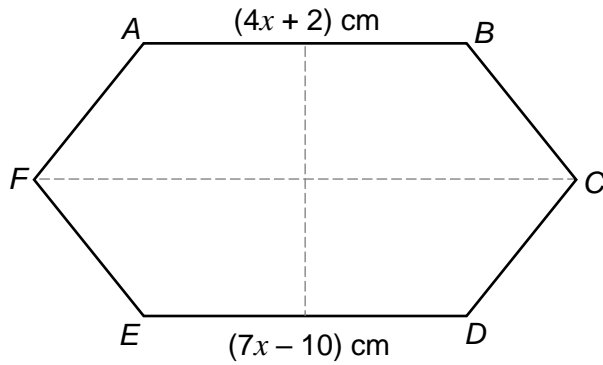
[2 marks]

Answer _____



28

$ABCDEF$ is a hexagon with two lines of symmetry.
The lines of symmetry are shown on the hexagon below.



$$AB : BC = 3 : 1$$

[5 marks]

Work out the perimeter of the hexagon.

Answer _____ cm

END OF QUESTIONS

$\frac{\quad}{8}$

