



Class
Maths

Video Solutions



PRACTICE PAPER FOR

AQA Paper 2F
(June 2026)

----- Disclaimer -----

This paper has been created based on some of the 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 it 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. Despite what you might see on social media it is not possible to “predict” the paper. This is usually what people say when they are selling you something...

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 (a) Simplify $a \times a \times a$

[1 mark]

Answer _____

1 (b) Simplify $b + b + b - b$

[1 mark]

Answer _____

1 (c) Solve $y - 6 = 8$

[1 mark]

Answer _____

1 (d) Expand $4(c + 2)$

[1 mark]

Answer _____





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outside the
box

2 Complete the table.

[2 marks]

Fraction	Percentage
	17%
$\frac{1}{20}$	

3 Here are some numbers.

6	6	6	7	8	9	9
---	---	---	---	---	---	---

3 (a) Write down the mode.

[1 mark]

Answer _____

3 (b) Work out the range.

[1 mark]

Answer _____

$\frac{\quad}{8}$

Turn over ►





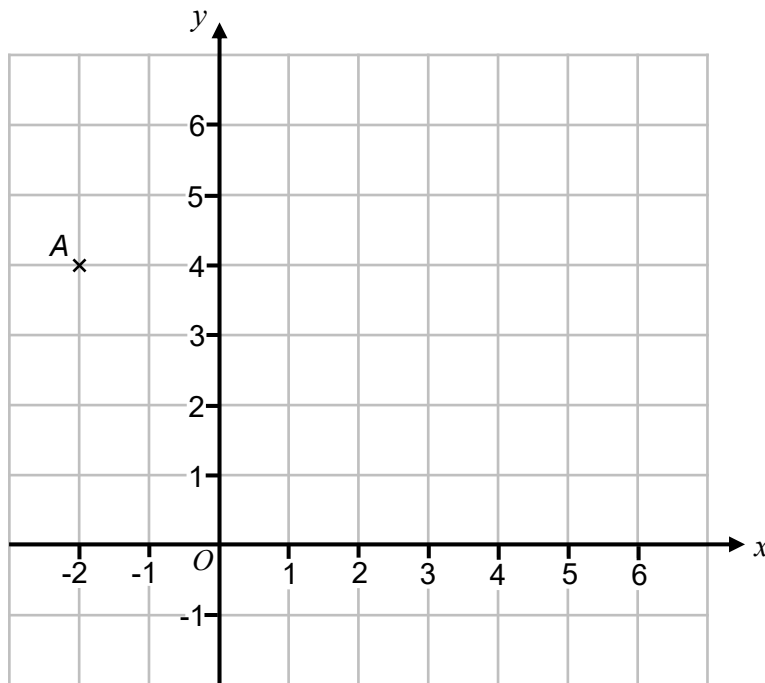
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outside the
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4 Write down all of the factors of 20

[2 marks]

Answer _____

5 Points A is plotted on the grid.



5 (a) Write down the coordinates of point A.

[1 mark]

Answer (_____ , _____)

5 (b) Point B has coordinates (0, 4)

Plot point B onto the grid.

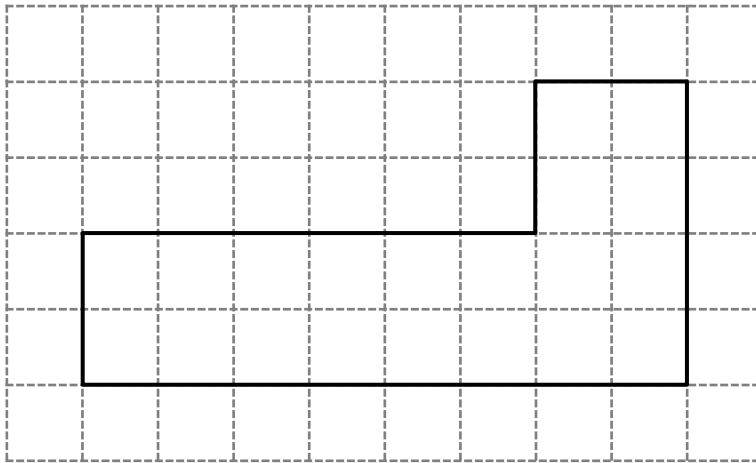
[1 mark]





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6 A shape is drawn on a centimetre grid.



6 (a) Write down the area of the shape.

[1 mark]

Answer _____ cm²

6 (b) Work out the perimeter of the shape.

[2 marks]

Answer _____ cm

7

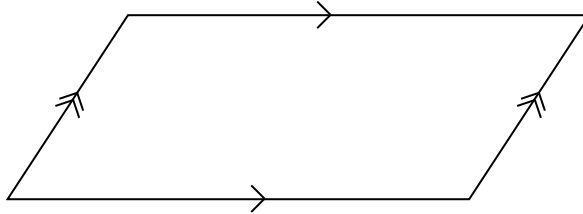
Turn over ►





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outside the
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7 Here is a quadrilateral.



Tick **one** box for each statement below.

[2 marks]

	True	False
The shape is a rhombus	<input type="checkbox"/>	<input type="checkbox"/>
The shape has 2 lines of symmetry	<input type="checkbox"/>	<input type="checkbox"/>
The shape has rotational symmetry order 2	<input type="checkbox"/>	<input type="checkbox"/>





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outside the
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8 $3x = 15$

Work out the value of $3x^2$

[2 marks]

Answer _____

9 Deanna levels up her character in a video game.

She must choose two **different** stats to boost from

- Health (H)
- Strength (S)
- Defense (D)
- Magic (M)
- Agility (A)

Complete the list of the ten possible combinations of stats that Deanna can boost.

[3 marks]

HS	

$\frac{7}{7}$

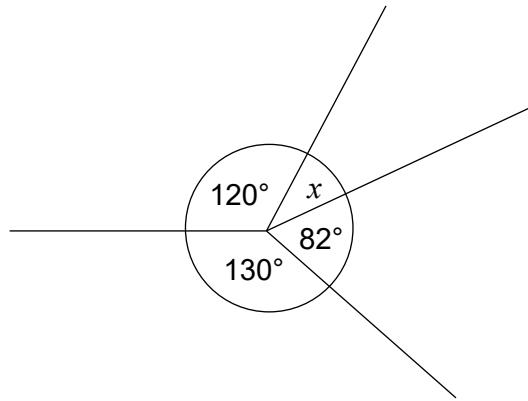
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10



Not drawn
accurately

Work out the size of the angle marked x and give a reason for your answer.

[3 marks]

Answer _____ °

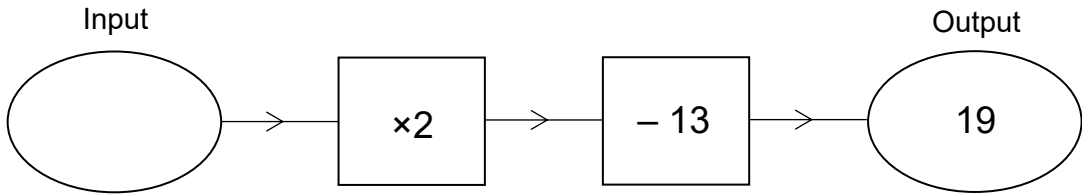
Reason _____





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11 (a) Here is a number machine.

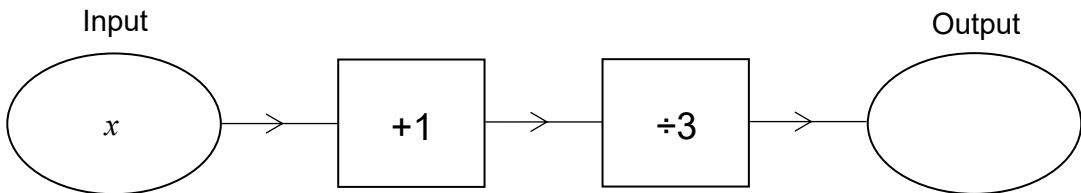


Work out the input.

[2 marks]

Answer _____

11 (b) Here is another number machine.



Write an expression for the output.

[2 marks]

Answer _____

7

Turn over ►

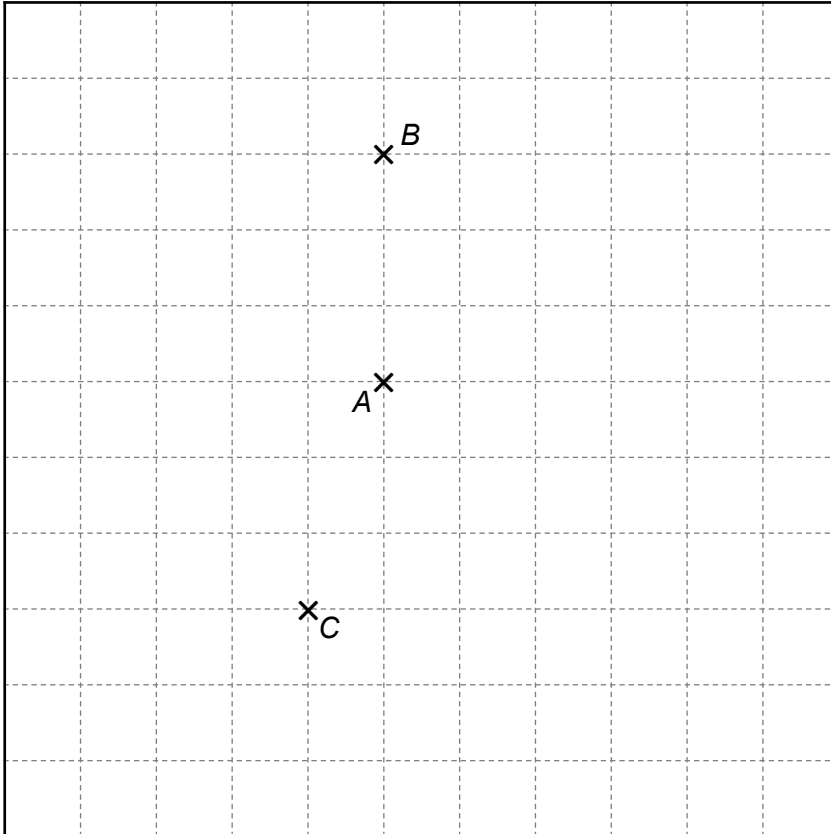




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12 Here is a map of some towns on a centimetre grid.

Scale: 1 cm represents 4 km



North



12 (a) Town *D* is

east town *A*
north east of town *C*

Mark the location of Town *D* onto the map above.

[2 marks]

12 (b) Write down the three-figure bearing of Town *A* from Town *B*.

[1 mark]

Answer _____ °





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outside the
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12 (c) A car travels from town B to town A in 30 minutes.

Assume the car travels in a straight line.

Work out the average speed of the car in kilometres per hour.

[2 marks]

Answer _____ kilometres per hour

12 (d) In fact, the car does **not** travel in a straight line.

How will the actual average speed of the car compare to your answer to part (c)?

Tick one box.

[1 mark]

The actual average speed will be lower than the answer to part (c)

The actual average speed will be higher than the answer to part (c)

The actual average speed will be the same the answer to part (c)

$\frac{\quad}{6}$

Turn over ►





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13 A bag contains only red and blue counters.

number of red counters : number of blue counters = 5 : 2

13 (a) Write the down fraction of counters in the bag that are red. [1 mark]

Answer _____

13 (b) Write the ratio of red counters to blue counter in the form $n : 1$ [1 mark]

Answer _____

14 $\frac{2}{3}$ of a number is equal to 60

Work out 30% of the number.

[4 marks]

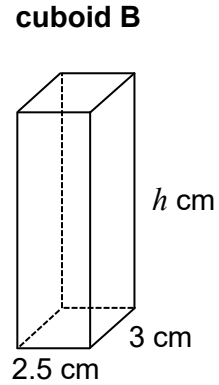
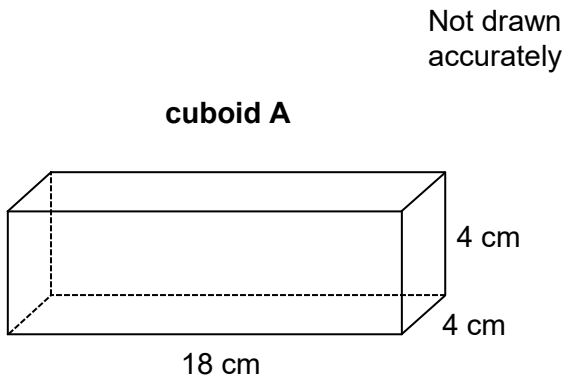
Answer _____





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15 Here are two cuboids.



Volume of **cuboid A** = 3 × volume of **cuboid B**

Work out the value of h

[4 marks]

$h =$ _____ cm

Turn over ►





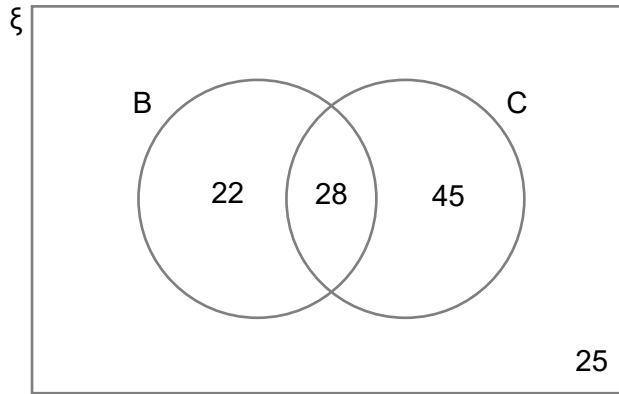
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16 The Venn diagram below shows information about whether 120 students in year 12 study biology or chemistry.

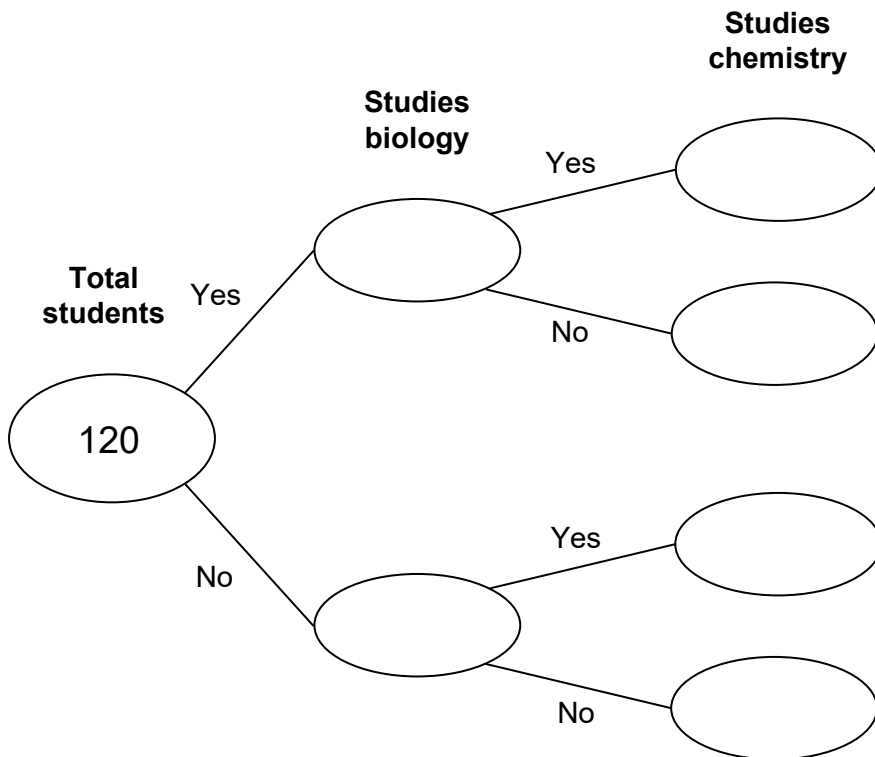
ξ = 120 students in year 12

B = studies biology

C = studies chemistry



Complete the frequency tree below for the 120 students in year 12. [3 marks]





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17 A linear sequence starts

40 46 52 58 ...

Work out an expression for the n th term of the sequence.

[2 marks]

Answer _____

18 (a) 499 849 is a square number.

Work out the first square number greater than 500 000

[2 marks]

Answer _____

18 (b) n is a 2 -digit prime number.

The first digit of n is 8.

Work out two possible values for the second digit.

[2 marks]

Answer _____ and _____

$\frac{\quad}{9}$

Turn over ►





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19 The table shows information about the amount of time 80 adults spent exercising.

Time spent exercising, T (minutes)	Frequency		
$0 < T \leq 30$	13		
$30 < T \leq 60$	17		
$60 < T \leq 90$	29		
$90 < T \leq 120$	21		

19 (a) Work out an estimate for the mean time spent exercising. [3 marks]

Answer _____ minutes

19 (b) Which interval contains the median? You **must** show your working. [2 marks]

Answer _____ $< T \leq$ _____

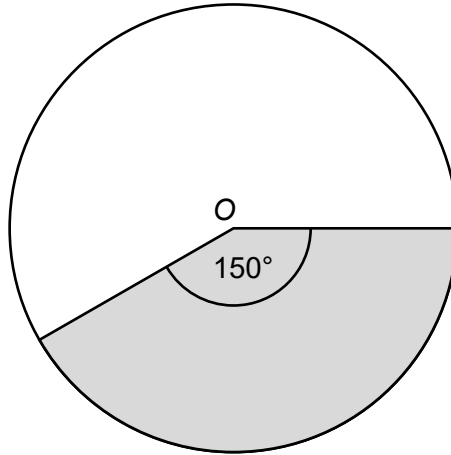




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20

Here is a circle centre O .



The area of the shaded part of the circle is 200 cm^2

Work out the area of the unshaded part of the circle.

[3 marks]

Answer _____ cm^2

$\frac{\quad}{8}$

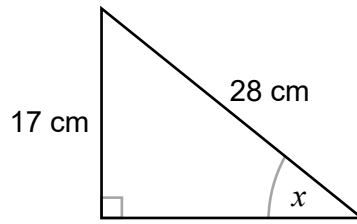
Turn over ►





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



Not drawn
accurately

[3 marks]

Answer _____ °

22 When rounded to 1 decimal place, $p = 9.8$
Complete the error interval for p .

[2 marks]

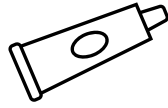
_____ $\leq p <$ _____





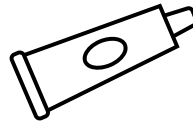
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23 Here is some information about two tubes of toothpaste.



Tube A

75 ml



Tube B

120 ml

price of tube A : price of tube B = 2 : 3

Which tube is better value for money?

Tube A

Tube B

Show working to support your answer.

[3 marks]

$\frac{\quad}{8}$

Turn over ►

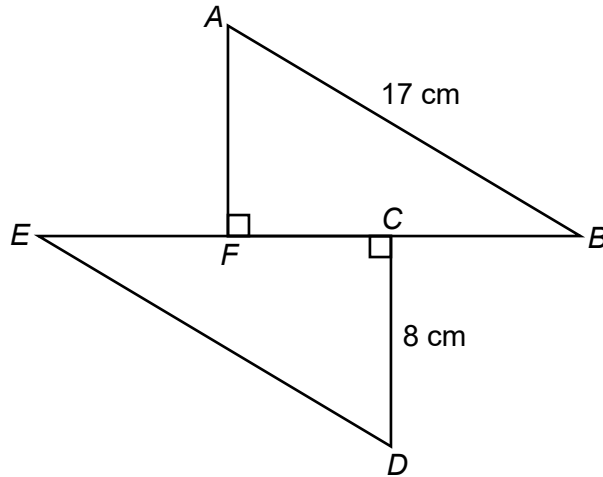




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25

The shape below is made from two congruent, right-angled triangles.



$AB = 17 \text{ cm}$

$CD = 8 \text{ cm}$

$EF = FC = CB$

Work out the perimeter of shape $ABCDEF$

[4 marks]

Answer _____ cm

$\frac{\quad}{8}$

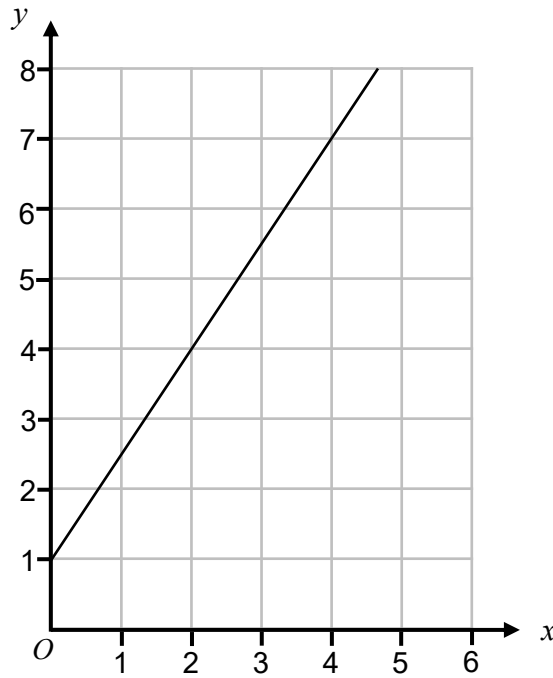
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26 Here is a straight line graph.



Work the gradient of the line.

[2 marks]

Answer _____

END OF QUESTIONS

$\frac{2}{2}$

