



Please write clearly in block capitals.

Centre number

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Candidate number

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Surname

Forename(s)

Candidate signature

I declare this is my own work.

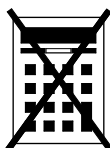
GCSE MATHEMATICS

F

Foundation Tier
Final Third

Paper 1 Non-Calculator

November 2024



For Examiner's Use	
Pages	Mark
2–3	
4–5	
6–7	
8	
TOTAL	

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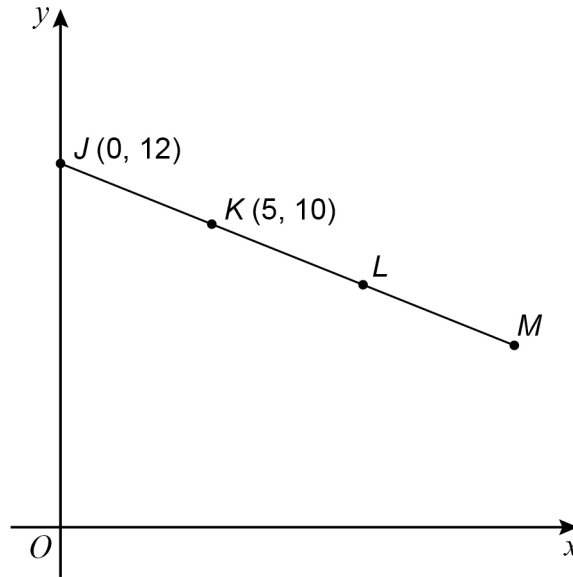
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Answer **all** questions in the spaces provided.

18

$J(0, 12)$ and $K(5, 10)$ are points on the straight line $JKLM$.



Not drawn
accurately

$$JK = KL = LM$$

Work out the coordinates of M .

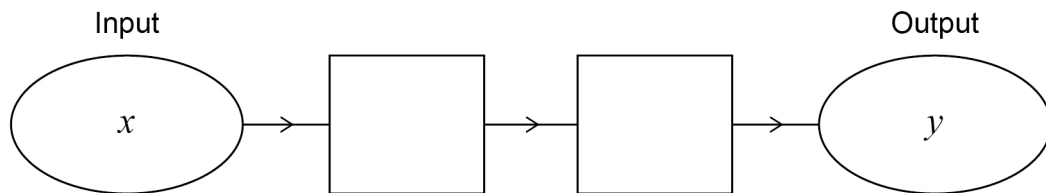
[3 marks]

Answer (_____ , _____)

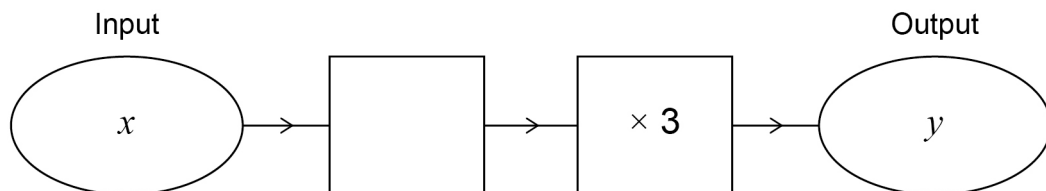
- 19** Work out the value of 1.5^2 **[2 marks]**

Answer _____

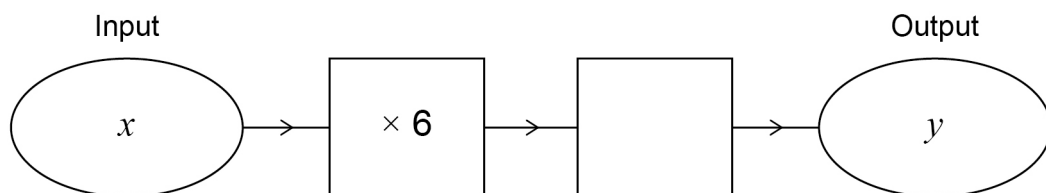
- 20 (a)** Complete this number machine so that $y = 4x + 5$ **[1 mark]**



- 20 (b)** Complete this number machine so that $y = 3x - 24$ **[1 mark]**



- 20 (c)** Complete this number machine so that $y = x$ **[1 mark]**



21 Each number in a list is increased by 10

Tick **one** box for each statement.

[3 marks]

	True	False	Cannot tell
The mode is increased by 10	☐	☐	☐
The median is increased by 10	☐	☐	☐
The range is increased by 10	☐	☐	☐

22 (a) Write the missing term in the geometric progression.

[1 mark]

1 4 16 _____ 256

22 (b) A Fibonacci-type sequence begins

5 -9

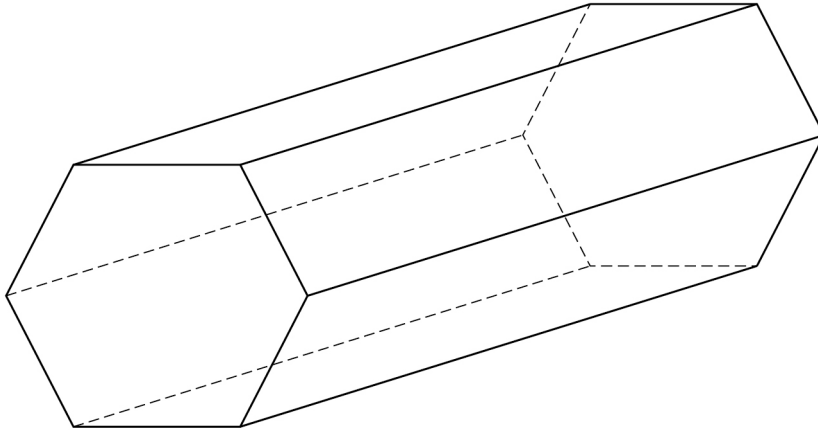
The sequence is continued by adding the previous two terms.

Work out the next **two** terms.

[2 marks]

Answer _____ and _____

23 Here is a solid prism.



23 (a) How many faces does the prism have?

[1 mark]

Answer _____

23 (b) The prism has

$$\text{volume} = 3500 \text{ cm}^3$$

and

$$\text{length} = 20 \text{ cm}$$

Work out the area of the cross-section of the prism.

[2 marks]

Answer _____ cm^2

24Work out $1\frac{1}{5} - \frac{3}{10}$

Give your answer as a fraction.

[2 marks]

Answer _____

25Write down the value of $\sin 90^\circ$ **[1 mark]**

Answer _____

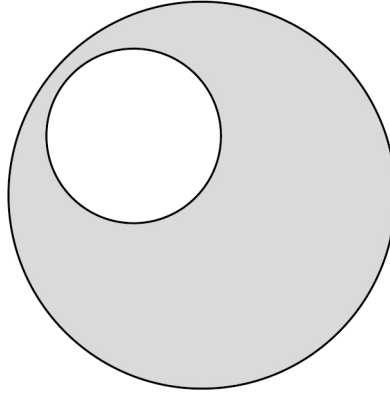
Turn over for the next question

26

A large circle and a small circle are shown.

The radius of the large circle is 12 cm

radius of large circle : radius of small circle = 4 : 1

Not drawn
accurately

Work out the shaded area.

Give your answer in terms of π **[4 marks]**

Answer _____ cm^2

27 (a) In this part, assume that each person works at the same rate.

10 people can complete a job in 9 hours.

If 15 people work on the same job, how many hours will it take to complete the job?

[2 marks]

Answer _____ hours

27 (b) In fact, of the 15 people

6 work at a slower rate

9 work at a faster rate.

What does this mean about the number of hours it will take to complete the job?

Tick **one** box.

[1 mark]

☐

It is greater than the answer to (a)

☐

It is the same as the answer to (a)

☐

It is less than the answer to (a)

☐

It is not possible to say