



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.

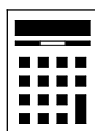
GCSE MATHEMATICS

F

Foundation Tier
Middle Third

Paper 3 Calculator

November 2024



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

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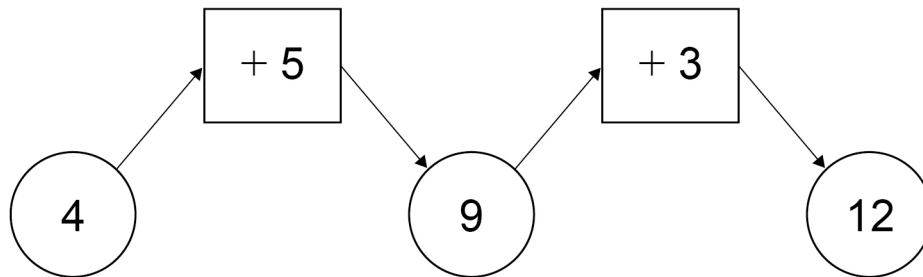
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Answer **all** questions in the spaces provided.

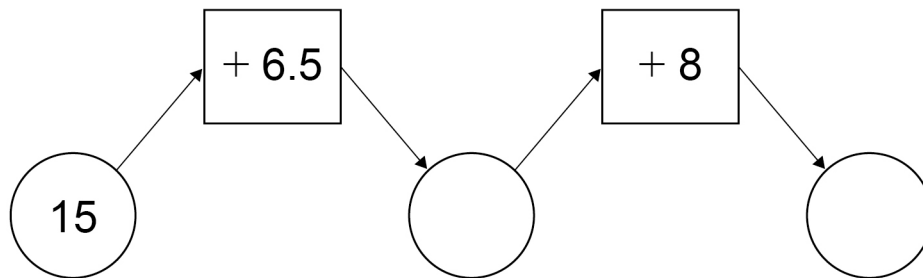
7

11 Here is a diagram.



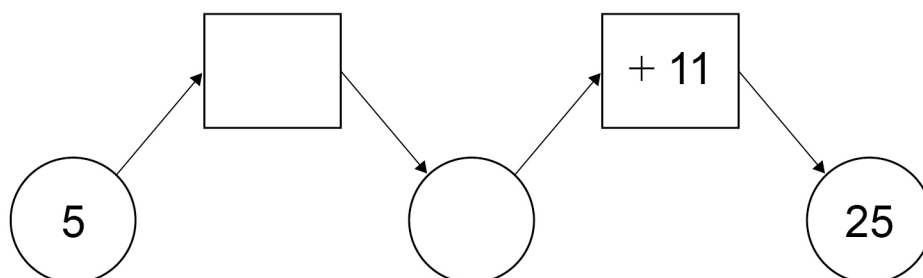
11 (a) Complete this diagram.

[1 mark]

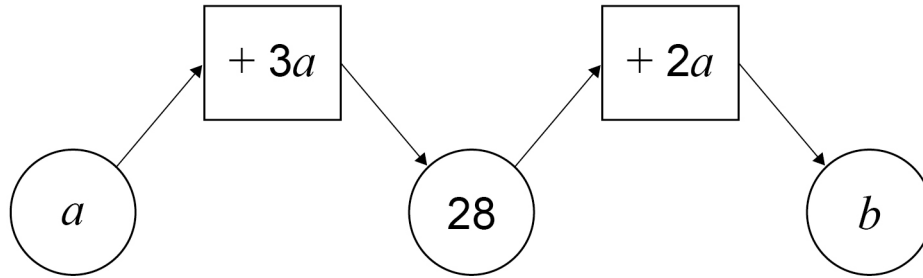


11 (b) Complete this diagram.

[2 marks]



11 (c)

Work out the value of b .**[3 marks]**

 $b =$ _____

12

Here are some numbers.

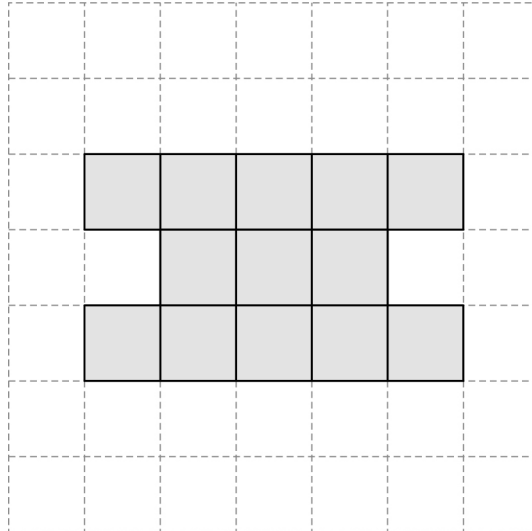
12 8 6 11 2 7 7 18 10

Work out the median.

[2 marks]

Answer _____

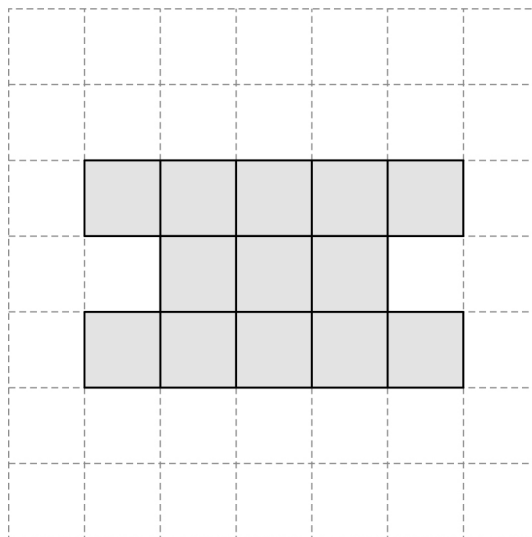
- 13 (a)** Here is a pattern of squares on a grid.



Draw the **two** lines of symmetry on the pattern.

[2 marks]

- 13 (b)** Here is the pattern again.



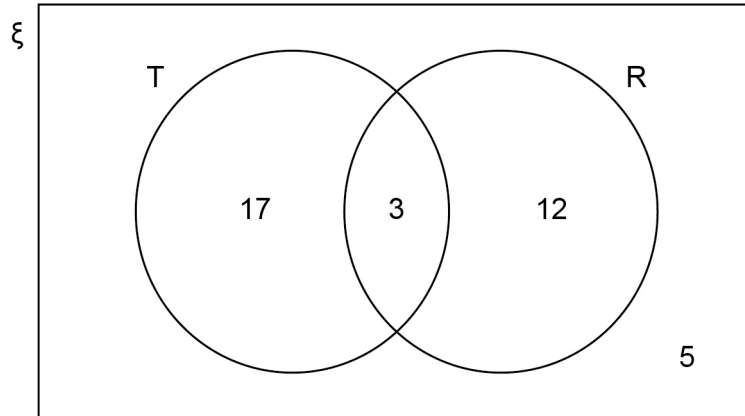
Shade **four** more squares so that the pattern has **rotational** symmetry of order 4

[1 mark]

- 14** The Venn diagram shows information about people who work in a gym.

T = people who can work as a trainer.

R = people who can work in reception.



- 14 (a)** How many people can work as a trainer **and** in reception?

[1 mark]

Answer _____

- 14 (b)** How many people can work in reception but **not** as a trainer?

[1 mark]

Answer _____

- 14 (c)** What fraction of **all** the people can work as a trainer?

[2 marks]

Answer _____

15 To get to college, 120 students either walk, cycle or travel by car.

$\frac{3}{8}$ of the students walk.

students who cycle : students who travel by car = 1 : 2

How many students travel by car?

[3 marks]

Answer _____

16 The original value of a car is £8600

The value of the car decreases by

15% in the first year

then

10% in the second year.

Work out the value of the car after these two years.

[3 marks]

Answer £ _____

17

Match the algebra to the correct description.

One has been done for you.

[3 marks]**Algebra****Description**

$$5x + 10 = 2x + 4$$

Identity

$$3(b + 2c) \equiv 3b + 6c$$

Equation

$$A = 4r + 6t$$

Inequality

$$3L + 8M$$

Formula

$$20 < 7y + 13$$

Expression

Turn over for the next question

18

Sunil has £25 to spend on game downloads.

He downloads 5 games, each costing £3.40

What percentage of the £25 does he spend?

[3 marks]

Answer _____ %