



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.

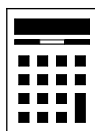
GCSE MATHEMATICS

F

Foundation Tier
Middle Third

Paper 2 Calculator

November 2024



For Examiner's Use

Pages

Mark

2–3

4–5

6–7

8–9

TOTAL

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

9

Callum is making pizza.

He can choose three **different** toppings from

- ham (H)
- sweetcorn (S)
- onion (O)
- mushrooms (M).

List **all** the possible options for the three toppings.

The first one has been done for you.

[2 marks]

H S O

Turn over for the next question

10 (a) Write $\frac{3}{8}$ as a percentage.

[1 mark]

Answer _____ %

10 (b) Work out $\frac{15}{32}$ as a decimal.

Give your answer to 2 decimal places.

[2 marks]

Answer _____

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

[3 marks]

	True	May be true	Not true
If a number is > 0 the number is positive	☐	☐	☐
If a number is ≤ 3 the number is 1	☐	☐	☐
If a number is ≥ 5 the smallest possible value of the number is 5	☐	☐	☐

12 (a) Work out the value of $x^2 + 7x$ when $x = -4$

[2 marks]

Answer _____

12 (b) Rearrange $y = w - 1$ to make w the subject.

[1 mark]

$w =$ _____

12 (c) Simplify fully $4(a + 2) + a$

[2 marks]

Answer _____

13

The time Shaz takes to run a race is 1 minute 28 seconds **less** than 2 hours.

Work out her time in hours, minutes and seconds.

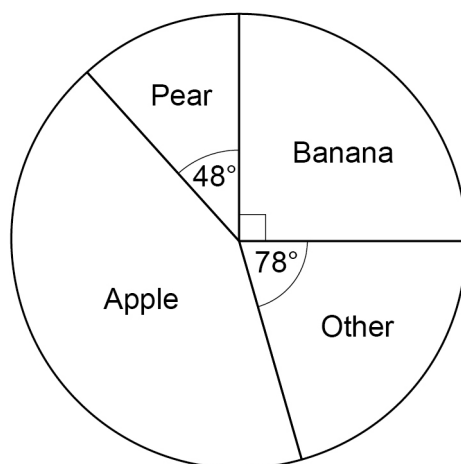
[2 marks]

Answer _____ hour _____ minutes _____ seconds

14

Some people were asked to choose their favourite fruit.
The pie chart shows information about the results.

Not drawn
accurately



120 people chose Banana.

How many people chose Apple?

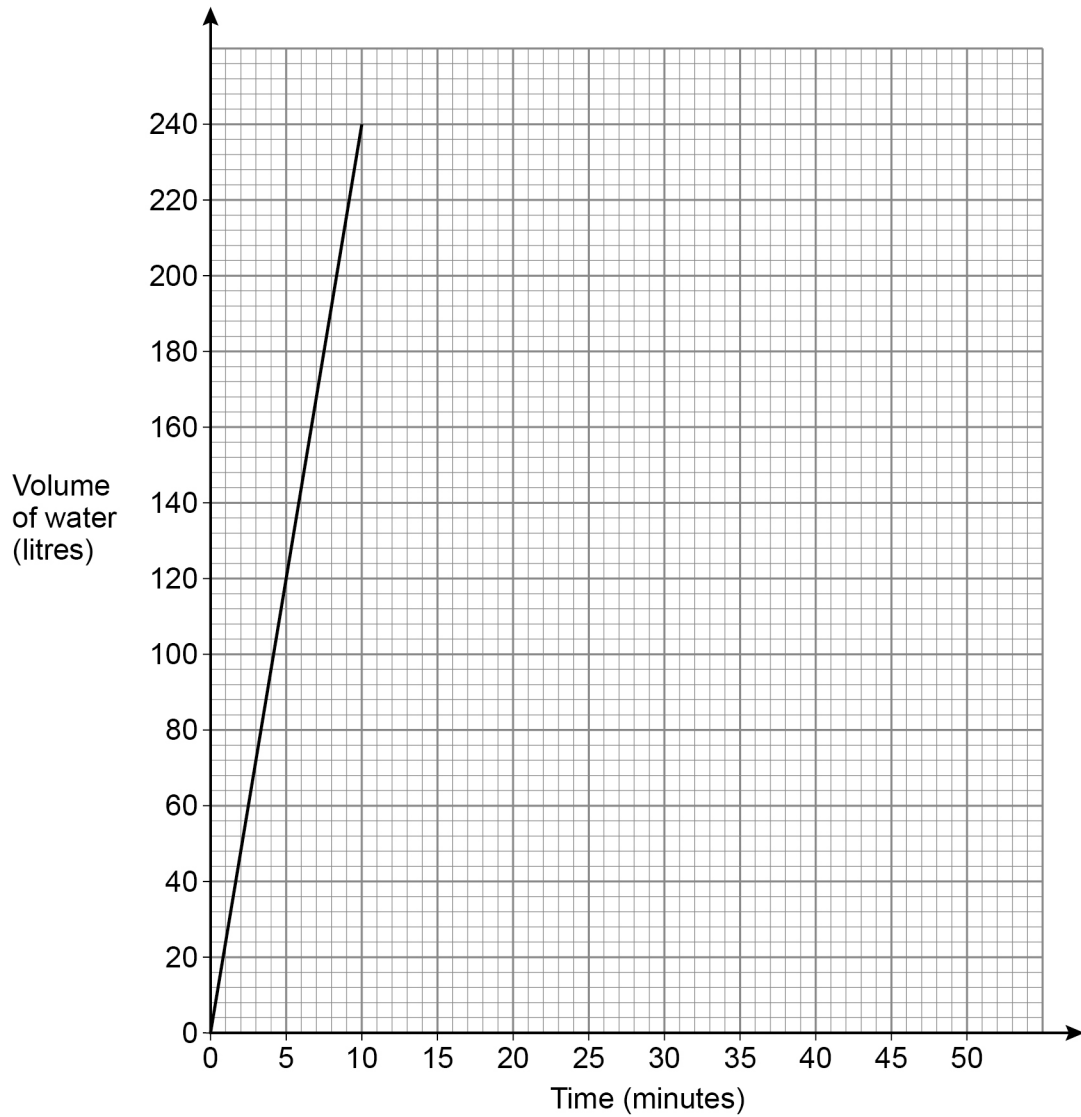
[4 marks]

Answer _____

15

The graph represents the volume of water in a bath.

The bath is full after 10 minutes.

**15 (a)**

Work out the rate at which the bath is filled.

State the units of your answer.

[2 marks]

Answer _____

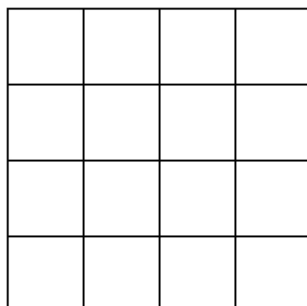
- 15 (b)** After the bath is full,
the volume of water stays constant for 20 minutes
then
all the water empties out at a constant rate in 12 minutes.

Show this information on the graph.

[2 marks]

- 16** In the grid below, shade **one quarter** of the squares
so that the grid has exactly **two** lines of symmetry.
Shade complete squares only.

[2 marks]



Turn over for the next question

17

A map has a scale of 1 : 4000

On the map, the distance from a station to a museum is 7 cm

Is the **actual** distance from the station to the museum **more** than 300 m?

Tick a box.

Yes

☐

No

☐

Show working to support your answer.

[3 marks]
