



Please write clearly in block capitals.

Centre number

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Candidate number

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Surname

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Forename(s)

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Candidate signature

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I declare this is my own work.

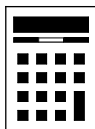
GCSE MATHEMATICS

F

Foundation Tier
Final Third

Paper 2 Calculator

November 2024



For Examiner's Use

Pages	Mark
2–3	
4–5	
6–7	
8	
TOTAL	

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

18

X is inversely proportional to Y .

Circle the correct statement.

[1 mark]

X is directly proportional to Y

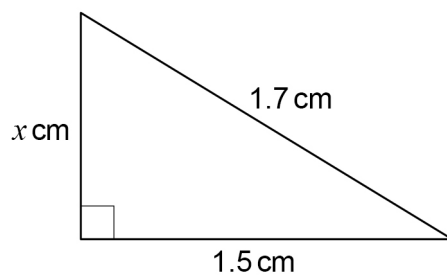
X is directly proportional to $\frac{1}{Y}$

X is directly proportional to $2Y$

X is directly proportional to $\sqrt{Y}$

19

Here is a right-angled triangle.

Not drawn
accuratelyUse Pythagoras' theorem to show that $x = 0.8$ **[2 marks]**

Turn over for the next question

- 20** Beth and Lynn each spin the same biased coin a number of times.
The table shows information about the results.

	Beth	Lynn
Number of spins	125	80
Relative frequency of Heads	0.32	0.35

- 20 (a)** How many **more** Heads did Beth spin than Lynn?

[2 marks]

Answer _____

- 20 (b)** Lynn says,

“My estimate of the probability of the coin landing on Heads must be the best,
because 0.35 is greater than 0.32”

Is she correct?

Tick a box.

Yes

☐

No

☐

Give a reason for your answer.

[1 mark]

21

Some oil has

a mass of 537 g

a density of $895\,000\text{ g/m}^3$ $1\text{ m}^3 = 1000\text{ litres}$

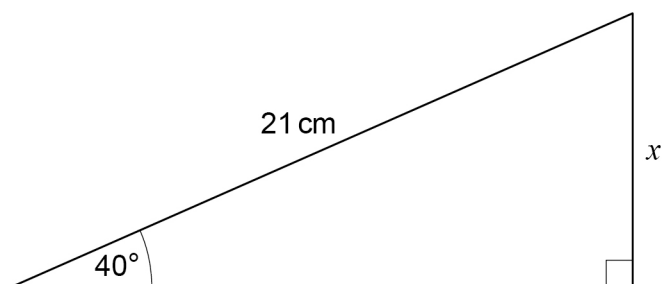
Work out the volume of the oil.

Give your answer in litres.

[2 marks]

Answer _____ litres

Turn over for the next question

22Use trigonometry to work out the value of x .Not drawn
accurately**[3 marks]**

Answer _____ cm

23

The length of a wall is 9 metres to the nearest metre.
Complete the error interval for the length of the wall.

[2 marks]Answer _____ m $\leq$ length < _____ m

- 24** 384 000 electric cars were sold this year.
This is 20% **more** than last year.
How many were sold **last year**?

[3 marks]

Answer _____

- 25** Here are three terms.

xy

x^2

$5y^2$

Alec multiplies two of these terms.

Work out the **three** possible fully simplified answers.**[3 marks]**

Answer _____

Answer _____

Answer _____

All measurements are in centimetres.

A rectangle with vertices labeled A (top-left), D (top-right), B (bottom-left), and C (bottom-right). The left side AB is labeled $4x + 1$ and the right side DC is labeled $2x + 17$.

Work out the value of the area.

[5 marks]

Answer cm²