

Please write clearly in block capitals.

Centre number

Candidate number

Surname

Forename(s)

Candidate signature

I declare this is my own work.

INTERNATIONAL GCSE

MATHEMATICS

Core Tier Paper 2C

C

Thursday 29 May 2025

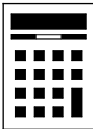
07:00 GMT

Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:

- a calculator
- mathematical instruments.



Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 80.
- You may ask for more answer paper, graph paper and tracing paper. These must be tagged securely to this answer book.
- If your calculator does not have a π button, take the value of π to be 3.142

Advice

Show all necessary working; otherwise marks for method may be lost.

For Examiner's Use	
Pages	Mark
2–3	
4–5	
6–7	
8–9	
10–11	
12–13	
14–15	
16–17	
18–19	
20–21	
22–23	
TOTAL	



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

1 Here is a list of numbers.

3 5 7 9 11

1 (a) Write down the **square** number in the list.

[1 mark]

Answer _____

1 (b) Write down the number in the list that is a **factor** of both 35 and 63

[1 mark]

Answer _____

1 (c) Multiply two of the numbers in the list to make the **greatest** possible product.

[1 mark]

$$\boxed{} \times \boxed{} = \boxed{}$$

2 Write down the value of $\sqrt{169}$

[1 mark]

Answer _____



3 Amira buys some vegetables.

3 (a) 7 cauliflowers cost \$6.44

Work out the cost of 3 of these cauliflowers.

[2 marks]

Answer \$ _____

3 (b) 2 cabbages and 1 pumpkin cost \$5.22

Each cabbage costs \$1.54

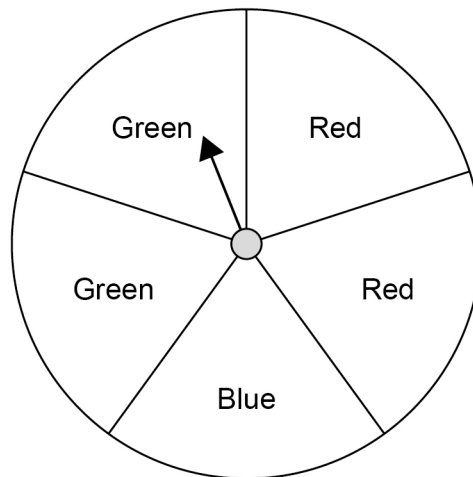
Work out the cost of 1 pumpkin.

[2 marks]

Answer \$ _____



- 4 Here is a fair spinner.



- 4 (a) The spinner is spun once.
Write down the probability that it lands on Red.

[1 mark]

Answer _____

- 4 (b) The spinner is spun again.
Write down the probability that it does **not** land on Red.

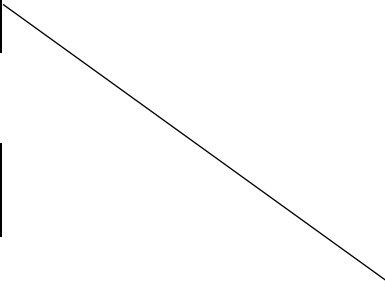
[1 mark]

Answer _____



- 5 Match the algebra to the correct description.
One has been done for you.

[3 marks]

$V = \pi r^2 h$		Expression
$3x - 1 = 7$		Inequality
$2x + 3$		Formula
$3x \geq 15$		Identity
		Equation

- 6 Write these fractions in order of size, starting with the **smallest**.

$$\frac{3}{5} \quad \frac{5}{8} \quad \frac{4}{9}$$

[2 marks]

Answer _____

Turn over ►



- 7 Jai asked 30 students to choose their favourite subject from Maths, English, Science and History.

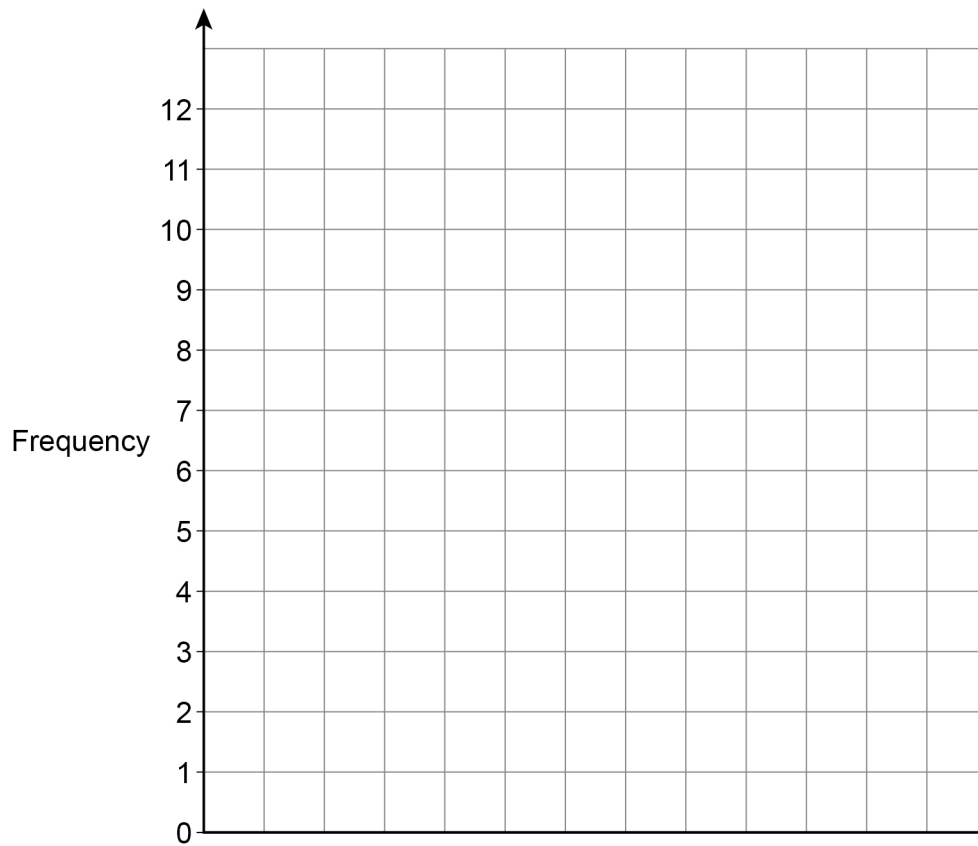
The table shows some of the results.

Subject	Maths	English	Science	History	Total
Frequency	12	8			30

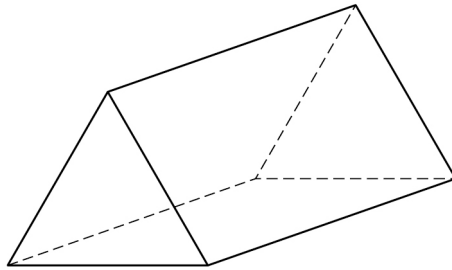
The same number of students chose Science as chose History.

On the grid, draw and label a bar chart to represent all the results.

[4 marks]



8 Here is a solid.



8 (a) Write down the name of the solid.

[1 mark]

Answer _____

8 (b) How many faces, edges and vertices does the solid have?

[3 marks]

Faces _____

Edges _____

Vertices _____

Turn over for the next question



9 (a) Simplify fully $7a \times 2a$

[1 mark]

Answer _____

9 (b) Solve $4x - 12 = 24$

[2 marks]

$x =$ _____

9 (c) Factorise fully $2y^2 + 6y$

[2 marks]

Answer _____



9 (d) Simplify fully $\frac{30x - 54}{6}$

[2 marks]

Answer _____

Turn over for the next question

7

Turn over ►



10 (a) Keiko works in an office 5 days each week.

Each working day, Keiko

- drives 12.8 km to the office
- drives 12.8 km home.

Assume that Keiko drives at an average speed of 40 km/h

Using this assumption, work out the total time Keiko will spend driving to and from her office in one week.

Give your answer in hours and minutes.

[3 marks]

Answer _____ hours _____ minutes

10 (b) In fact, Keiko drives at an average speed of 37 km/h

What does this mean about Keiko's total driving time in one week?

Tick **one** box.

[1 mark]

☐

It is less than the answer to part (a)

☐

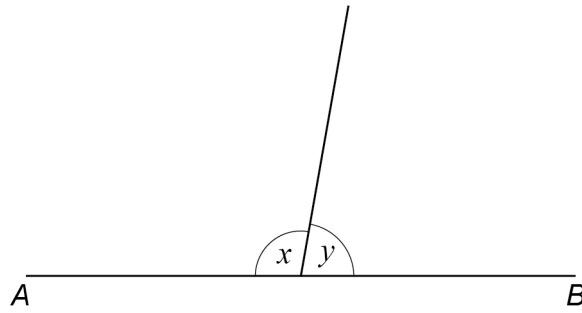
It is the same as the answer to part (a)

☐

It is more than the answer to part (a)



11

 AB is a straight line.Not drawn
accurately

$$x : y = 3 : 2$$

Work out the size of angle y .**[3 marks]**

$$y = \underline{\hspace{2cm}}^\circ$$

Turn over for the next question

Turn over ►



12Raj has x dollars.

He spends 8 dollars.

He gives two thirds of the dollars he has left to Anika.

Write an expression, in terms of x , for the number of dollars Raj gives to Anika.**[2 marks]**

Answer _____

13 (a)Work out $\frac{3.9^2 - 0.8}{\sqrt{6.25}}$

Give your answer as a decimal.

[2 marks]

Answer _____

13 (b)Round your answer to Question **13(a)** to 2 significant figures.**[1 mark]**

Answer _____



14 (a) 68 people are on a bus.

- 44 are adults.
- The rest are children.

Write the ratio adults : children in its simplest form.

[2 marks]

Answer _____ :

14 (b) Write the ratio 2 : 9 in the form 1 : n

[1 mark]

Answer 1 : _____

Turn over for the next question



15

The table gives information about the heights of some plants.

	Least height (cm)	Mean height (cm)	Range of heights (cm)
Indoor plants	20.8	23.1	5.1
Outdoor plants	20.8	22.9	5.7

Tick **one** box for each statement.

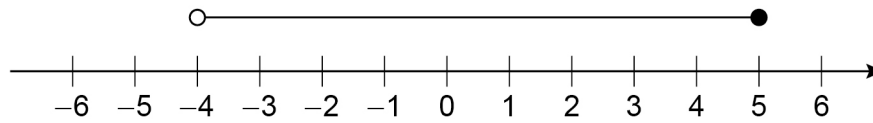
[3 marks]

	True	False	Cannot tell
On average, the outdoor plants are taller.	☐	☐	☐
The heights of the outdoor plants are more consistent.	☐	☐	☐
An outdoor plant has the greatest height.	☐	☐	☐

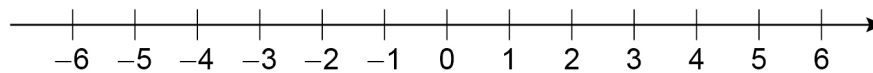


16 (a)

Write down the inequality shown by this number line.

[2 marks]

Answer _____

16 (b)Represent $x \leq 2$ on this number line.**[1 mark]****16 (c)**

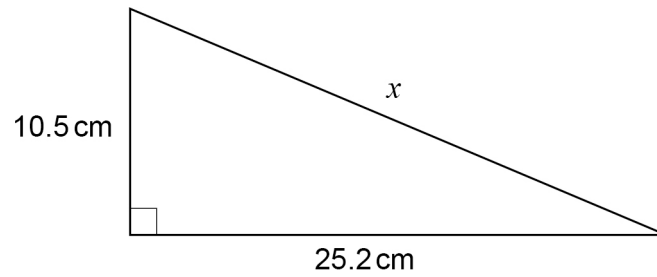
$-2 \leq w < 3$

Write down all the possible integer values of w .**[2 marks]**

Answer _____

Turn over for the next question**Turn over ►**

17

Not drawn
accurately

Use Pythagoras' theorem to work out the value of x .

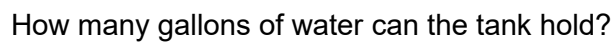
You **must** show your working.

[3 marks]

$x =$ _____ cm



A water tank is a cylinder with radius 42 cm and height 150 cm



Use 4.5 litres = 1 gallon

[4 marks]

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins or other markings on the paper.

Answer _____ gallons

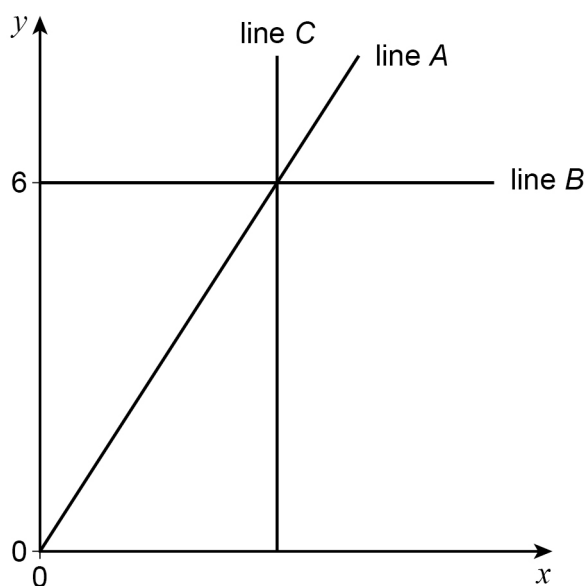


19 Work out 84 as a percentage of 60

[2 marks]

Answer _____ %



20Here is a sketch of three lines, A , B and C , that intersect at a point.

- Line A has equation $y = 2x$
- Line B is horizontal and crosses the y -axis at $(0, 6)$
- Line C is vertical.

20 (a) Write down the equation of line B .**[1 mark]**

Answer _____

20 (b) Work out the equation of line C .**[2 marks]**

Answer _____



21

Li asks 100 people which colour they like best from red, blue, green and yellow.

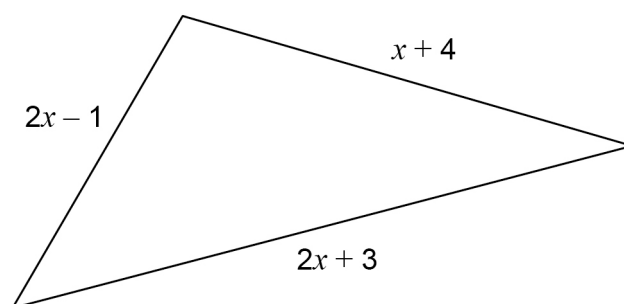
Tick **one** box for each statement about the data.

[3 marks]

	True	False
The data is quantitative.	☐	☐
The data is primary.	☐	☐
Li could represent the data in a pie chart.	☐	☐
Li could represent the data in a stem-and-leaf diagram.	☐	☐



22

Not drawn
accurately

The perimeter of the triangle is 28.5 cm

Work out the length of the **shortest** side.

[3 marks]

Answer _____ cm

Turn over for the next question

Turn over ►



23

The original value of a car was \$35 000

The value decreased

by 28% in the first year

and then

by 15% each year for 2 years.

After the 3 years, was the value of the car **less than** 50% of the original value?

You **must** show your working.

[3 marks]

24

$$(2^a)^3 = 2^{17} \div 2^5$$

Work out the value of a .

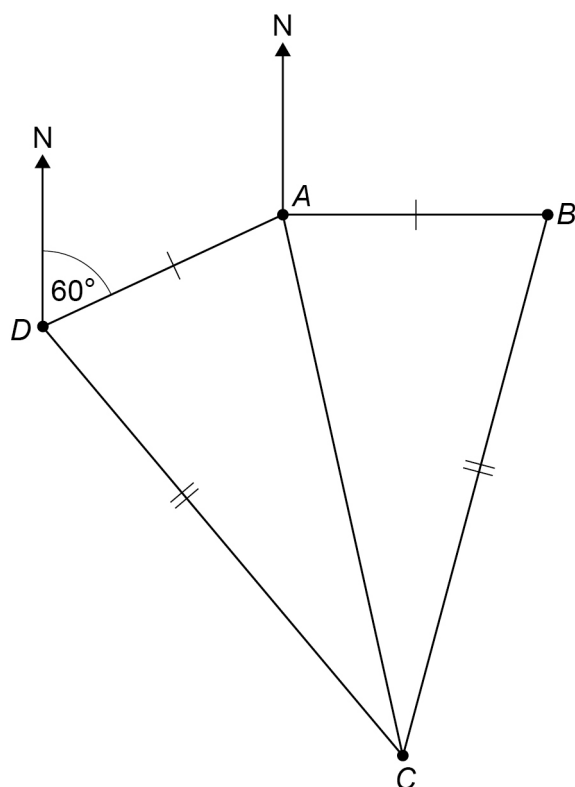
[2 marks]

$$a = \underline{\hspace{10cm}}$$



25

A , B , C and D are four towns.



Not drawn
accurately

- B is due East of A .
- The bearing of A from D is 060°
- Angle $DAC = \text{angle } BAC$

Work out the bearing of C from A .

[4 marks]

Answer _____^o

END OF QUESTIONS



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