

OXFORD

INTERNATIONAL
AQA EXAMINATIONS

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.

INTERNATIONAL GCSE MATHEMATICS CORE

Paper 2C

C

Wednesday 17 May 2023

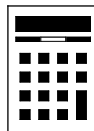
07:00 GMT

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
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2–3	
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4–5	
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6–7	
-----	--

8–9	
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10–11	
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12–13	
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14–15	
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16–17	
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18–19	
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20–21	
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22–23	
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TOTAL	
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J U N 2 3 9 2 6 0 2 C 0 1

IB/G/Jun23/E7

9260/2C

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

- 1 (a)** Circle the expression that is the same as abc

[1 mark]

$a + b + c$

$a \times b \times c$

$a \times b + c$

$a + b \times c$

- 1 (b)** w is 4 more than y .

Circle the correct equation.

[1 mark]

$w = 4y$

$y = 4w$

$w = y + 4$

$y = w + 4$

- 2 (a)** Circle the solid that has 6 faces.

[1 mark]

cone

triangular prism

sphere

cuboid



2 (b) Circle the shape with the **greatest** number of vertices.

[1 mark]

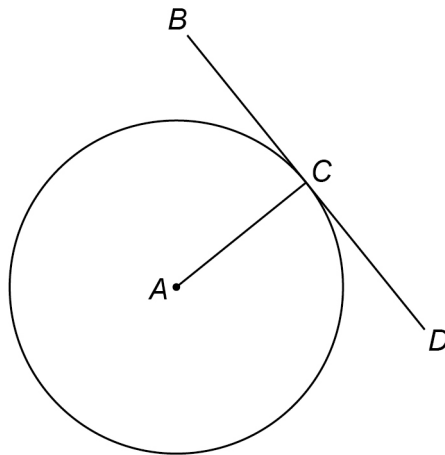
octagon

hexagon

decagon

parallelogram

3 C is a point on a circle, centre A.



Complete each statement using a word from this list.

chord

circumference

diameter

radius

tangent

[3 marks]

Line AC is a _____

Line BCD is a _____

The perimeter of the circle is the _____



- 4** Each pack of biscuits contains the same number of biscuits.
In 5 packs there is a total of 60 biscuits.
Work out the **total** number of biscuits in 8 packs.

[3 marks]

Answer _____

- 5** Sam adds a square number to a multiple of 10
The answer is a prime number between 20 and 30
Complete the boxes to show her calculation.

[2 marks]

$$\square + \square = \square$$



[2 marks]

Circle	Triangle
B	Y

[1 mark]

Answer _____

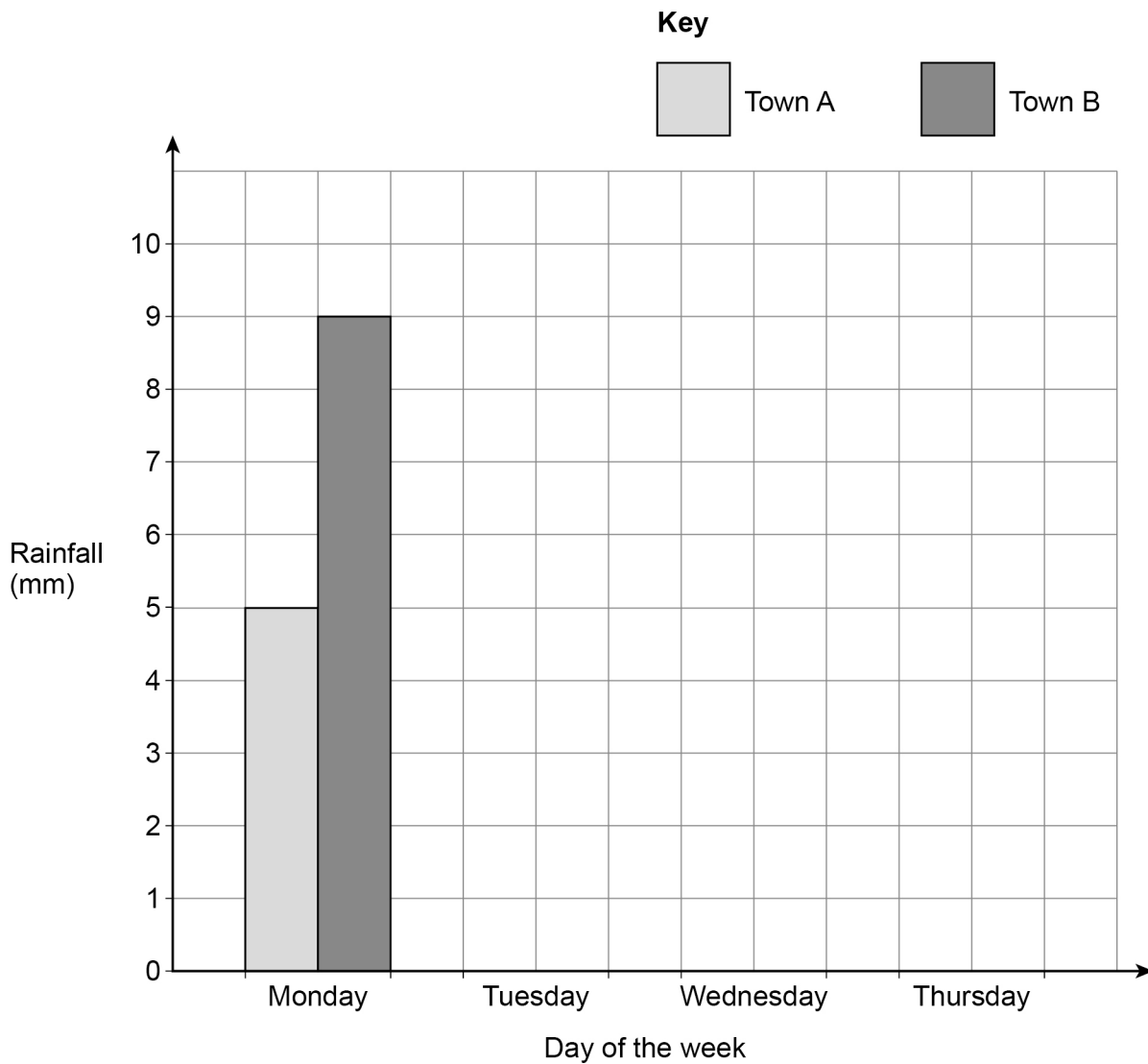


- 7 The table shows information about the rainfall in two towns.

	Rainfall (mm)	
	Town A	Town B
Monday	5	9
Tuesday	4	10
Wednesday	0	2
Thursday	6	3

Complete the dual bar chart to show this information.

[2 marks]



8

A theatre has seats for 1350 people.

At a show,

28 rows each have 16 people in seats

and

the other 32 rows each have 24 people in seats.

How many **empty** seats are there?

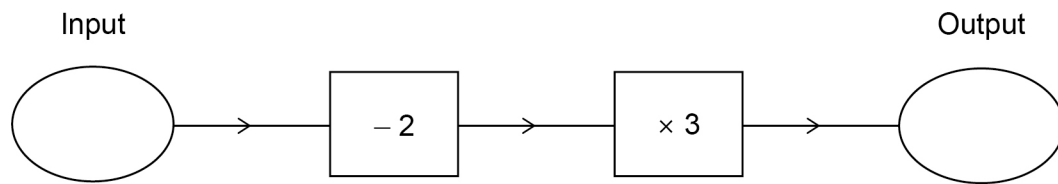
[3 marks]

Answer _____

Turn over for the next question



- 9 Here is a number machine.



- 9 (a) Work out the **output** when the input is 8

[1 mark]

Answer _____

- 9 (b) Work out the **input** when the output is 27

[2 marks]

Answer _____

- 9 (c) Circle the expression for the **output** when the input is x .

[1 mark]

$x - 6$

$3(x - 6)$

$3x - 2$

$3(x - 2)$



10

At a sports event, a country wins 125 medals.

28% are gold medals.

16% are silver medals.

The rest are bronze medals.

Work out the number of bronze medals.

[3 marks]

Answer _____

Turn over for the next question



11 Here is a formula.

$$P = 10a - 3b$$

11 (a) Work out the value of P when $a = -4$ and $b = 2$

[2 marks]

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

11 (b) Work out the value of a when $P = 2$ and $b = 1$

[2 marks]

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



- 12** The stem-and-leaf diagram shows the masses of lobsters on a market stall.

Key: 1 | 5 represents 1.5 kg

1	5	6	7	8				
2	1	3	3	4	6	7	9	
3	0	4	6	8	8			
4	1	6						

- 12 (a)** Lobsters cost \$11.30 per kg

Work out the total cost of the **five** heaviest lobsters.

[3 marks]

Answer \$ _____

- 12 (b)** Standard lobsters have a mass **less** than 2.8 kg

Work out the median mass of the **standard** lobsters.

[2 marks]

Answer _____ kg



13

Leema runs from 18:50 until 20:26

She then walks 7.2 km at an average speed of 4.8 km/h

Does she spend more time running or walking?

You **must** show your working.

[3 marks]

Answer _____

14

A 3-digit **even** number is

divisible by 7

and

divisible by 19

Work out **one** possible value of the number.

[2 marks]

Answer _____



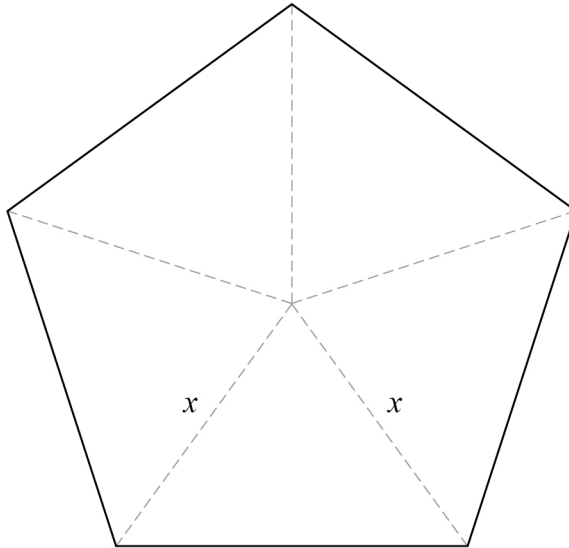
15

A regular pentagon is made from five identical **isosceles** triangles.

The perimeter of the pentagon is 144 cm

The perimeter of each triangle is 77.8 cm

Not drawn
accurately



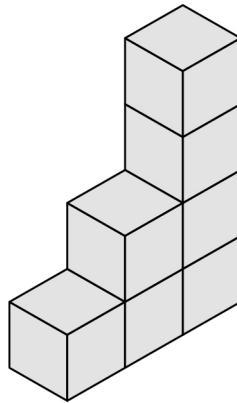
Work out the value of x .

[3 marks]

$x =$ _____ cm

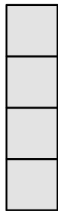
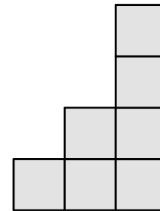


- 16** This solid is made from seven cubes, each of side length 1 cm



- 16 (a)** Circle the plan view.

[1 mark]



- 16 (b)** Work out the **total** surface area of the solid.
State the units of your answer.

[2 marks]

Answer _____



17 A spinner has four sections, A, B, C and D.

The table shows the probability of the spinner landing in each section when it is spun.

A	B	C	D
0.12	0.23	0.34	p

17 (a) Circle the value of p .

[1 mark]

0.31

0.45

0.66

0.69

17 (b) The spinner is spun 300 times.

Work out the **total** number of times it is expected to land on B or C.

[2 marks]

Answer _____

Turn over for the next question



18

Draw a line from each inequality to the correct list of integer values.

[3 marks]

$$4 < x \leq 9$$

4, 5, 6, 7, 8, 9

$$4 \leq x < 9$$

5, 6, 7, 8, 9

$$4 \leq x \leq 9$$

4, 5, 6, 7, 8

5, 6, 7, 8

19

Here are two calculations.

A

$$50^{30} \times 50^{40}$$

B

$$50^{75} \div 50^3$$

Which calculation has the **larger** answer, A or B?

Show working to support your answer.

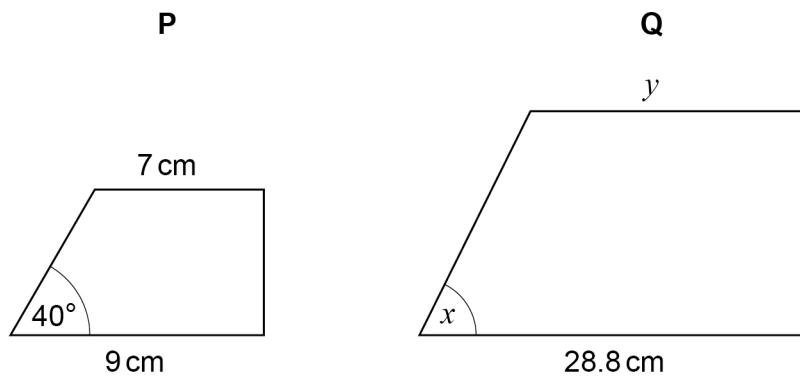
[2 marks]

Answer _____



20

Shapes P and Q are similar.

Not drawn
accurately20 (a) Write down the size of angle x .

[1 mark]

 $x =$ _____ °20 (b) Work out the value of y .

[2 marks]

 $y =$ _____ cm

Turn over for the next question

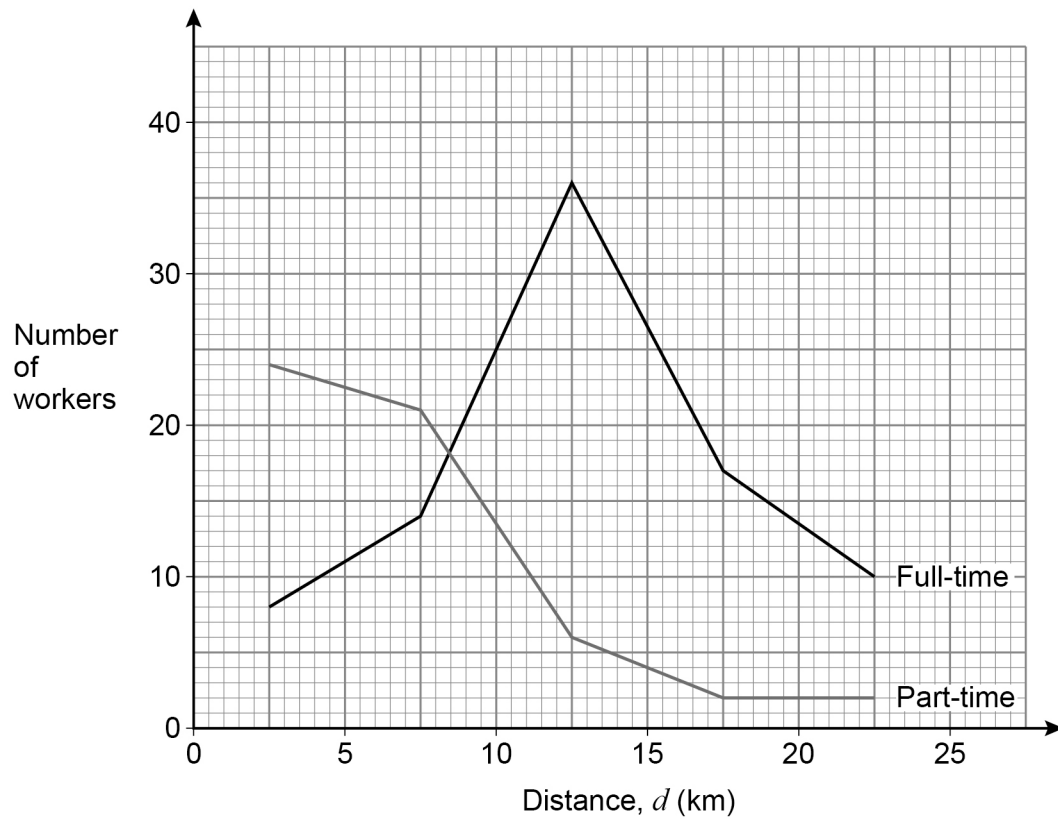
Turn over ►



21

A company has part-time workers and full-time workers.

The frequency polygons show the distributions of the distances they travel to work.



21 (a) State **one** difference between the distributions.

[1 mark]



- 21 (b)** Complete the table, using equal class widths, for **all** workers.

[3 marks]

Distance, d (km)	Frequency (all workers)
$0 \leq d < 5$	32
$\text{---} \leq d < \text{---}$	
$\text{---} \leq d < \text{---}$	
$\text{---} \leq d < \text{---}$	
$\text{---} \leq d < \text{---}$	

- 22** Shape P is a regular polygon.

Tick **one** box for each statement about P.

[2 marks]

	True	False
The sum of the exterior angles is 360°	☐	☐
The interior angles are different sizes.	☐	☐
interior angle + exterior angle = 180°	☐	☐

Turn over ►



Here is some information about the number of shops on each floor.

1st floor	72 shops	$\frac{2}{3}$ are open
2nd floor	180 shops	open : closed = 5 : 4

[5 marks]

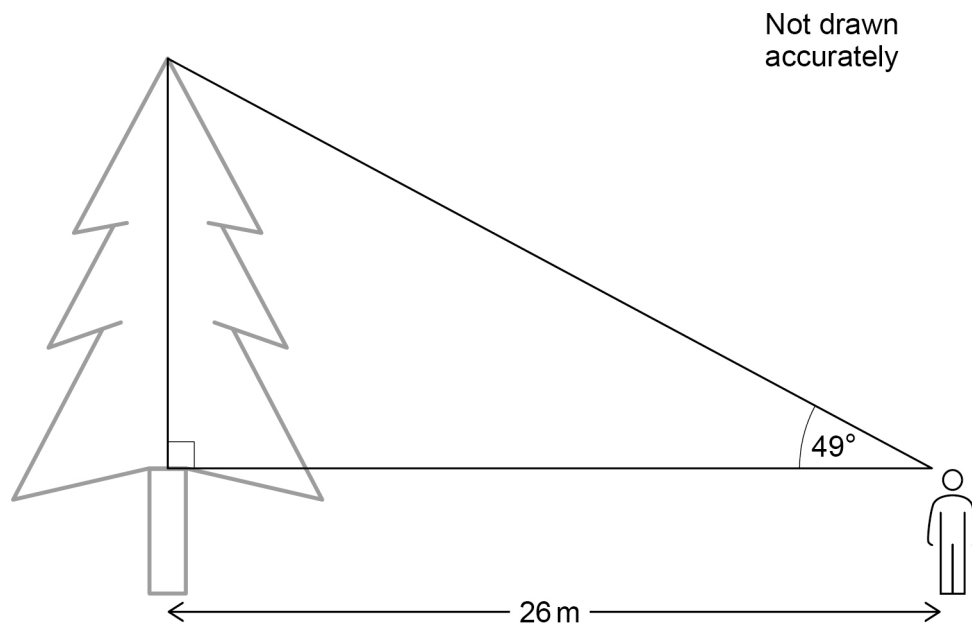
[illegible]

Answer



24

The diagram shows a tree and a man on level ground.



The man is 2 metres tall.

Work out the height of the tree.

[3 marks]

Answer _____ m



25

Here is an identity in x .

$$5ax - 11 \equiv 20x + b + 3$$

Work out the values of a and b .**[3 marks]**

$$a = \underline{\hspace{2cm}} \quad b = \underline{\hspace{2cm}}$$

26

The equation of a line is $6x + y = 1$

Circle the gradient of the line.

[1 mark]

−6 −1 1 6



27

Here is the term-to-term rule for a sequence.

Multiply by 2 and add x

The third term is 41 and the fourth term is 97

..... 41 97

Work out the **first** term.

[4 marks]

Answer _____

END OF QUESTIONS



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