

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

**Foundation Tier**

**Paper 1 Non-Calculator**

Day X June 2024

Morning

Time allowed: 1 hour 30 minutes

### Materials

For this paper you must have:

- mathematical instruments
- the Formulae Sheet (enclosed).

You must **not** use a calculator.



### 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.

### Advice

In all calculations, show clearly how you work out your answer.

| For Examiner's use |      |
|--------------------|------|
| Pages              | Mark |
| 2-3                |      |
| 4-5                |      |
| 6-7                |      |
| 8-9                |      |
| 10-11              |      |
| <b>TOTAL</b>       |      |



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

**1**

Circle the length of time between 4.00pm and 5.05pm

**[1 mark]**

55 min

65 min

105 min

125 min

**2**

A circle has diameter 10 cm  
Circle the radius.

**[1 mark]**

5 cm

10 cm

20 cm

100 cm

**3**

Circle the percentage that is between  $\frac{1}{2}$  and  $\frac{3}{4}$

**[1 mark]**

40%

60%

80%

90%



4

Circle the value of  $3^2 + 4^2$ **[1 mark]**

14

17

25

49

5

Simplify fully  $8a + 5b + 6a - 2b$ **[2 marks]**

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Answer \_\_\_\_\_

**Turn over for the next question**

- 6 200 students were each asked about the monthly cost of their phone contract. Here are the results.

|                  | Less than £25 | £25 or over |
|------------------|---------------|-------------|
| School Students  | 40            | 90          |
| College Students | 32            | 38          |

- 6 (a) How many **more** school students than college students were asked?

[2 marks]

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Answer \_\_\_\_\_

- 6 (b) What percentage of the 200 students had a monthly cost **less than £25**?

[2 marks]

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Answer \_\_\_\_\_



7

The only animals on a farm are 30 cows and 80 sheep.

$\frac{1}{5}$  of the 30 cows are sold

And

$\frac{5}{8}$  of the 80 sheep are sold.

Work out the **total** number of animals that are sold.

[3 marks]

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Answer \_\_\_\_\_

8

Some gamers were asked which type of video game they preferred.

65% said Action.

19% said Role-playing.

The rest said Sports.

What percentage said Sports?

[2 marks]

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Answer \_\_\_\_\_ %



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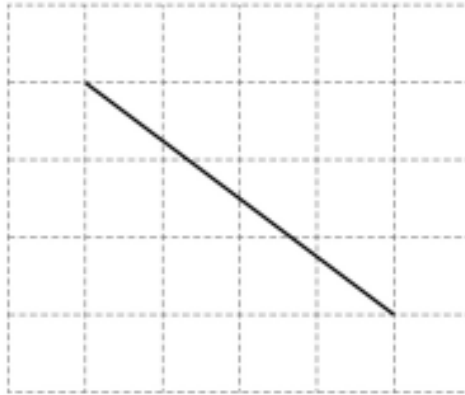
**DO NOT WRITE ON THIS PAGE  
ANSWER IN THE SPACES PROVIDED**



9 (a)

A diagonal of a rectangle is drawn on a centimetre grid.

The sides of the rectangle are on the grid lines.



Work out the area of the rectangle.

[2 marks]

Answer \_\_\_\_\_ cm<sup>2</sup>

9 (b)

One side of a parallelogram is drawn on this centimetre grid.

The parallelogram does not have any right angles.

Complete the parallelogram so that it has area 24 cm<sup>2</sup>

[2 marks]

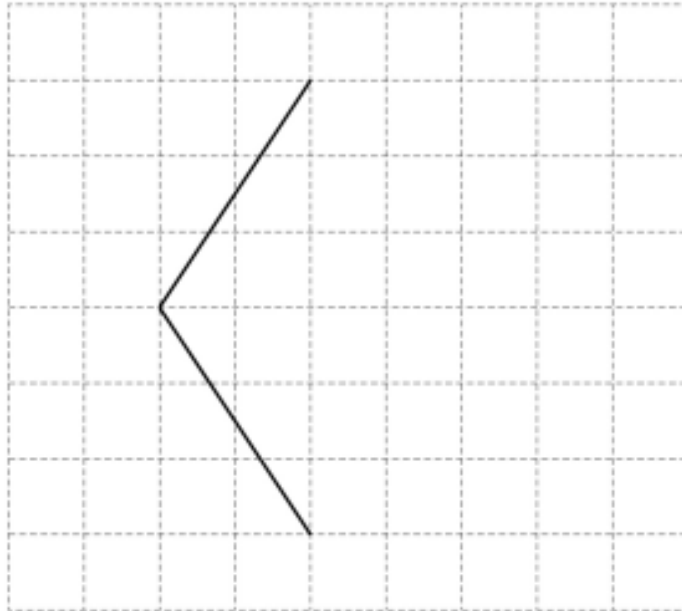


9 (c)

Two sides of a rhombus are drawn on this grid.

Complete the rhombus.

[1 mark]



10

Here is a calculation.

$$428 \times 30 = 12840$$

Use the calculation to help answer the following questions.

10 (a)

Write down the answer to  $12840 \div 428$ 

[1 mark]

Answer \_\_\_\_\_

10 (b)

Circle the answer to  $214 \times 30$ 

[1 mark]

1284

3210

6420

25 680





11

A shop sells notebooks and pencils.

**Notebooks**  
Pack of 8 for £12

**Pencils**  
56p each  
Or  
Pack of 6 for £2.70

11 (a)

Marek buys some **packs** of notebooks.

The cost is £60

In total, how many **notebooks** did he buy?**[2 marks]**


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Answer \_\_\_\_\_

11 (b)

Work out the cheapest cost of 10 pencils.

**[3 marks]**


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Answer £ \_\_\_\_\_



**11 (c)**

The shop also sells folders for £3.20 each.

The shop has this offer.



Work out the cost of 4 folders using the offer.

**[3 marks]**

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Answer £ \_\_\_\_\_

**END OF QUESTIONS**

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write  
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box*

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ANSWER IN THE SPACES PROVIDED**

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