

GCSE MATHEMATICS

AQA | Edexcel | OCR | WJEC

(Level 3)

2D Shapes

Please write clearly in block capitals

| Forename: | |
|-----------|--|
| Surname: | |

Materials

For this paper you must have:

· mathematical instruments



You *can* use a calculator.

Instructions

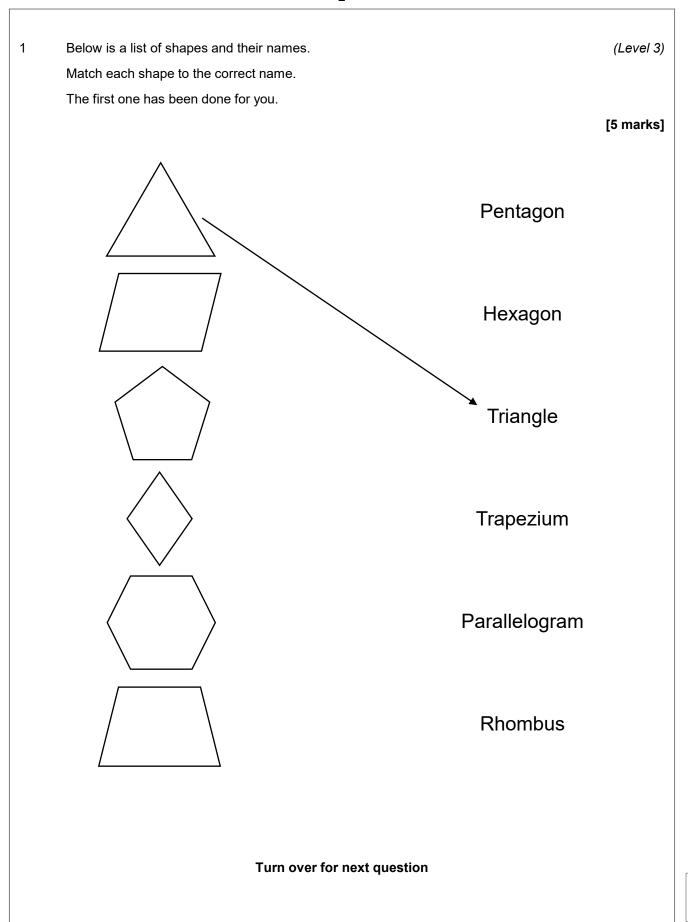
- · Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- You may ask for graph paper, tracing paper and more answer paper. These must be tagged securely to this answer book.

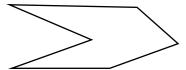
Advice

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



Three irregular shapes are shown below: (Level 3)

2(a) Circle the number of sides and the name of the following shape:

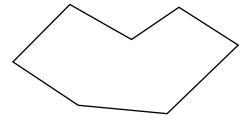


[1 mark]

5-sided pentagon 6-sided pentagon

5-sided hexagon 6-sided hexagon

2(b) Circle the number of sides and the name of the following shape:

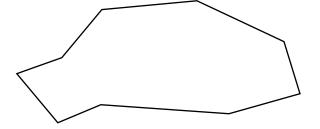


[1 mark]

6-sided hexagon 7-sided heptagon

6-sided heptagon 7-sided hexagon

2(c) Circle the number of sides and the name of the following shape:



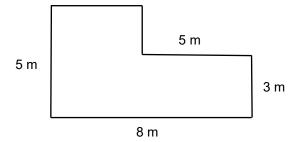
[1 mark]

7-sided heptagon 9-sided nonagon

8-sided octagon 10-sided decagon

The diagram below shows a garden. (Level 3)

All the corners meet at a right angle



Determine the area of the garden.

You **must** show your working

[3 marks]

| Answer | |
|--------|--|



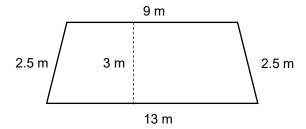
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| | - | |
|---|---|----------|
| l | An advertising company designs a poster in the shape of a parallelogram. The client wants the poster to a have a uniform bright background colour to be applied. | (Level 3 |
| | 22 cm 30 cm | |
| | | |
| | Calculate the area that needs to be covered. | |
| | You must show your working. | |
| | | [2 marks |
| | | |
| | | _ |
| | | _ |
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| | | |
| | Answer | |
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| | _ , , , | |
| | Turn over for next question | |
| | | |
| | | |

5 The diagram below shows the a plan for the floor of a warehouse. (Level 3)



5(a) Calculate the area of the warehouse floor

[3 marks]

Answer

5(b) The warehouse owner has two identical warehouses.

How much would it cost to buy tiles to cover the floor of both warehouses, given that the tiles selected cost £25 $per\ m^2$?

[2 marks]

Answer

5

| 6 | Consider the nets A, B, C and D. | (Level 3) | | |
|------|---|-----------|--|--|
| | | | | |
| | A B C D | | | |
| 6(a) | Which net will properly form a cube with a lid? | [1 mark] | | |
| 6(b) | Explain why each of the other nets will not form a cuboid with a lid? | | | |
| | | | | |
| | | | | |
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| 7 | A farmer has a house that sits at the edge of a field, with all sides meeting at right angles. | (Level 3) | | |
|------|--|-----------|--|--|
| | The field has the following measurements. | | | |
| | | | | |
| | | | | |
| | | | | |
| | 40 m | | | |
| | | | | |
| | | | | |
| | 100 m | | | |
| 7(a) | a) The farmer wants to know how much fencing he will need to surround the field. [3 ma | | | |
| | Calculate the total length of fencing. | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | Answer m | | | |
| | | | | |
| 7(b) | If the fence costs £5 per metre, determine the cost of fencing the entire field. | | | |
| | | [1 mark] | | |
| | | | | |
| | | _ | | |
| | | | | |
| | | | | |
| | | | | |
| | Answer: £ | | | |
| | | | | |
| | = 1.55 % | | | |
| | End of Questions | | | |
| | | | | |

END