

# GCSE Mathematics

**F**

## Properties of 2D Shapes

Foundation | Grades 1-3

| Total Marks | Time   | Questions |
|-------------|--------|-----------|
| 26          | 26 min | 20        |

**Instructions:**

- Do not use a calculator when you see: 
- Answer all questions in the spaces provided.
- Show all your working - marks are awarded for method as well as final answers.
- Cross through any work you do not want to be marked.
- Check your answers if you have time at the end.

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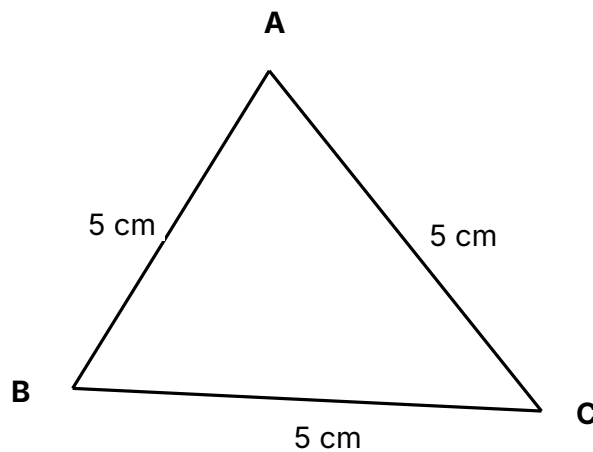
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**Edexcel-style questions****Q1** 

Grade 1

Edexcel style

What type of triangle is shown?

*Diagram NOT accurately drawn*

Answer \_\_\_\_\_

teachably

[1 mark]

**Q2** 

Grade 1

Edexcel style

A quadrilateral has four equal sides and four right angles. What is the name of this quadrilateral?

Answer \_\_\_\_\_

teachably

[1 mark]

**Q3** 

Grade 2

Edexcel style

State two properties of a parallelogram.

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Answer 

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**[2 marks]****Q4** 

Grade 2

Edexcel style

Name the polygon that has 7 sides.

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Answer 

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**[1 mark]****Q5** 

Grade 3

Edexcel style

A quadrilateral has four equal sides, but its diagonals are not equal in length. What is the name of this quadrilateral?

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Answer 

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teachably

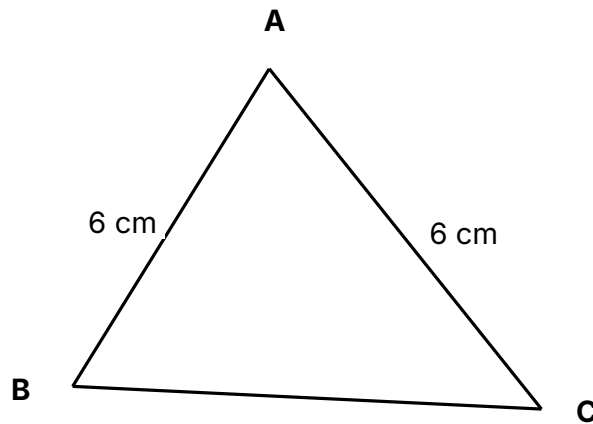
**[1 mark]**

**AQA-style questions****Q6** 

Grade 1

AQA style

What type of triangle is shown?

*Diagram NOT accurately drawn*

Answer \_\_\_\_\_

teachably

**[1 mark]****Q7** 

Grade 2

AQA style

A quadrilateral has two pairs of equal, parallel sides and four right angles, but its sides are not all the same length. What is the name of this quadrilateral?

Answer \_\_\_\_\_

teachably

**[1 mark]**

**Q8** 

Grade 2

AQA style

How many lines of symmetry does a rectangle (that is not a square) have?

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Answer 

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**[1 mark]****Q9** 

Grade 2

AQA style

How many sides does an octagon have?

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Answer 

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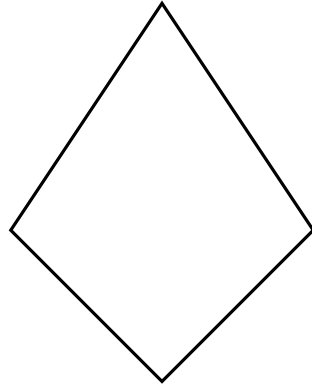
**[1 mark]**

**Q10** 

Grade 3

AQA style

The diagram shows a quadrilateral. Name this quadrilateral, and state its number of lines of symmetry.



*Diagram NOT accurately drawn*

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Answer \_\_\_\_\_

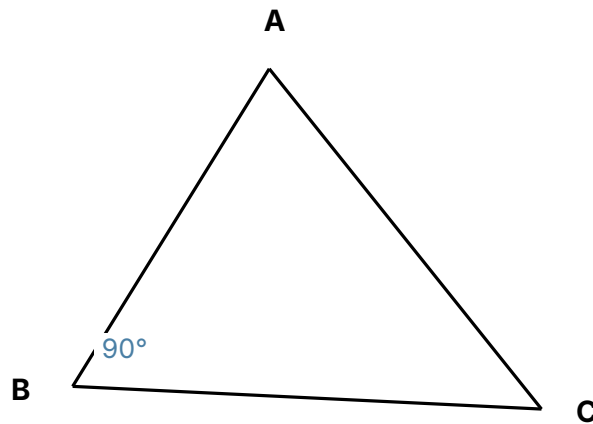
## OCR-style questions

Q11 

Grade 2

OCR style

What type of triangle is shown?

*Diagram NOT accurately drawn*

Answer \_\_\_\_\_

teachably

[1 mark]

Q12 

Grade 2

OCR style

A quadrilateral has four equal sides and two pairs of parallel sides, but no right angles. What is the name of this quadrilateral?

Answer \_\_\_\_\_

teachably

[1 mark]

**Q13** 

Grade 2

OCR style

What is the order of rotational symmetry of a rhombus?

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Answer 

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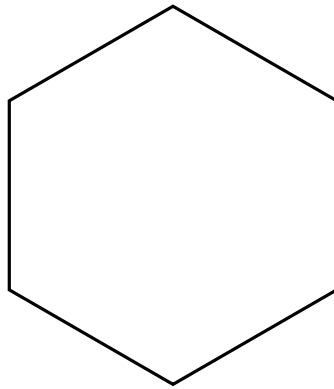
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**[1 mark]****Q14** 

Grade 3

OCR style

The diagram shows a regular polygon. How many lines of symmetry does it have?



*Diagram NOT accurately drawn*

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Answer 

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teachably

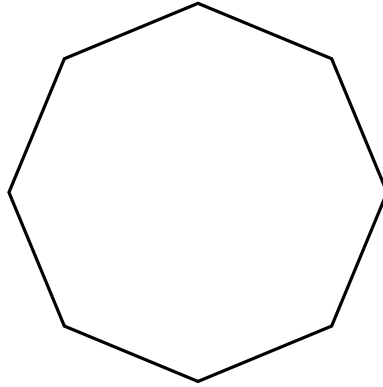
**[1 mark]**

**Q15** 

Grade 3

OCR style

The diagram shows a regular polygon. Name this polygon, and state its order of rotational symmetry.



*Diagram NOT accurately drawn*

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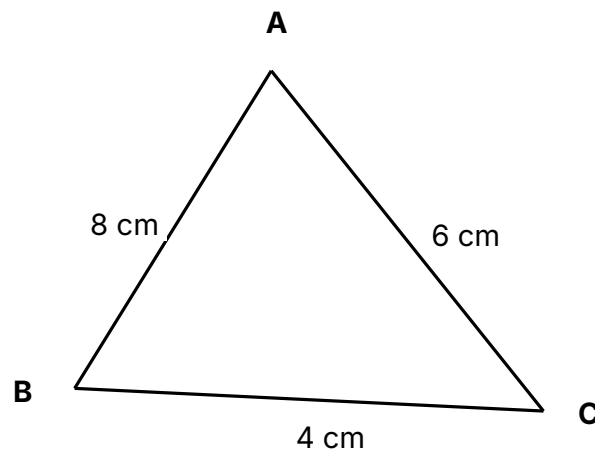
Answer \_\_\_\_\_

**Teachably-style questions****Q16** 

Grade 2

Teachably style

What type of triangle is shown?

*Diagram NOT accurately drawn*

Answer \_\_\_\_\_

teachably

**[1 mark]****Q17** 

Grade 2

Teachably style

A quadrilateral has exactly one pair of parallel sides. What is the name of this quadrilateral?

Answer \_\_\_\_\_

teachably

**[1 mark]**

**Q18** 

Grade 3

Teachably style

State two properties of a kite.

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Answer 

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teachably

**[2 marks]****Q19** 

Grade 3

Teachably style

A polygon has 5 sides of different lengths and 5 different angles. Is this polygon regular or irregular? Give a reason for your answer.

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Answer 

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teachably

**[2 marks]****Q20** 

Grade 3

Teachably style

A student says, "every rhombus is a square." Is the student correct? Explain your answer.

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Answer 

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**[2 marks]****END OF PAPER**

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