ENGLAND GCSE MATHS OCR HIGHER · UNIT 9 · 10 QUESTIONS

Geometry, Angles, Shapes, Constructions and Similarity — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A castle is 10 m tall. Its model is 25 cm tall. The scale factor from the model to the real castle is**

- **A** 50
- **B** 30
- **C** 80
- **D** 40

Understand It with Pulse | Flag a mistake

2 **A kite has angles 90, 90, 80 and one more. The fourth angle is**

- A 100
- B 110
- C 80
- D 280

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3 **A set square is a right-angled triangle with angles 90 degrees, 30 degrees and one more. The third angle is**

- A 60
- B 120
- C 70
- D 30

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4 **Two straight lines cross. One of the angles formed is 98°. The angle vertically opposite it is**

- A 82°
- B 90°
- C 98°
- D 262°

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5 **Three angles meet at a point. Two of them are 60° and 63°. The third angle is**

- A 123°
- B 237°
- C 120°
- D 257°

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6 **A shape with area 5 cm² is enlarged by scale factor 4. The area of the enlarged shape is**

- A 9 cm²
- B 320 cm²
- C 20 cm²
- D 80 cm²

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7 **A point is translated by the vector binom53. The point moves**

- A 5 right and 3 up
- B 5 right and 3 down
- C 5 left and 3 up
- D 3 up and 5 right

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8 **A ladder leans against a wall, making an angle of 60 degrees with the ground. The angle between the ladder and the wall is**

- A 30
- B 60
- C 40
- D 120

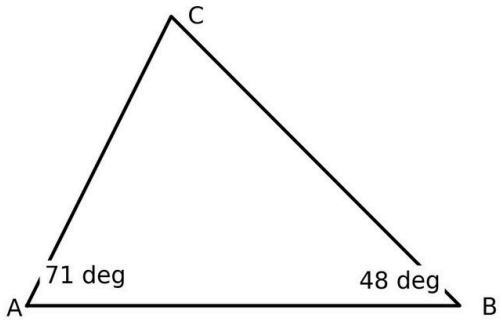
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9 **The interior angle of a triangle is 57°. The exterior angle at the same vertex is**

- A 303°
- B 57°
- C 143°
- D 123°

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10 **A triangle has two angles of 71° and 48°. The third angle is**



- **A** 119°
- **B** 76°
- **C** 109°
- **D** 61°

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ANSWER KEY

1.	D	**5.**	B	**9.**	D
2.	A	**6.**	D	**10.**	D
3.	A	**7.**	A		
4.	C	**8.**	A		

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