ENGLAND GCSE MATHS AQA 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 kite has angles 90, 90, 60 and one more. The fourth angle is**

- A 300
- B 130
- C 60
- D 120

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2 **A castle is 15 m tall. Its model is 30 cm tall. The scale factor from the model to the real castle is**

A 60

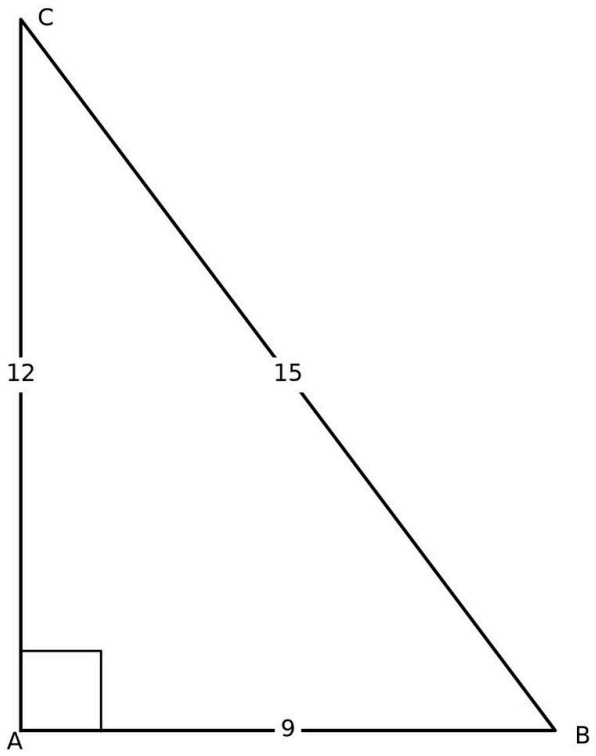
B 40

C 50

D 100

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3 **The diagram shows a right-angled triangle with sides 9 cm, 12 cm and 15 cm. A similar triangle has a shortest side of 18 cm. Its longest side is**



- **A** 15 cm
- **B** 45 cm
- **C** 30 cm
- **D** 17 cm

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4 **The sum of the interior angles of a polygon with 5 sides is**

- A 540°
- B 900°
- C 720°
- D 360°

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5 **Three angles meet at a point. Two of them are 47° and 92°. The third angle is**

- A 241°
- B 133°
- C 139°
- D 221°

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6 **Two parallel lines are cut by a transversal. One angle is 44°. Its corresponding angle is**

- A 64°
- B 136°
- C 44°
- D 90°

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7 **The sail of a sailing ship is a right-angled triangle with sides 3 m, 4 m and 5 m. A similar sail has a shortest side of 6 m. Its longest side is**

- A 4
- B 8
- C 10
- D 15

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8 **The interior angle of a triangle is 88°. The exterior angle at the same vertex is**

- A 92°
- B 112°
- C 88°
- D 272°

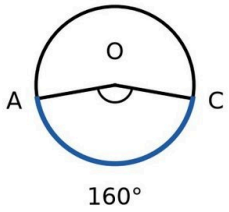
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9 **A shape with area 8 cm² is enlarged by scale factor 2. The area of the enlarged shape is**

- A 16 cm²
- B 32 cm²
- C 64 cm²
- D 10 cm²

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10 **An angle at the centre of a circle stands on an arc of 160°. The angle at the circumference standing on the same arc is**



- **A** 160°
- **B** 80°
- **C** 320°
- **D** 90°

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ANSWER KEY

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

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