ENGLAND GCSE MATHS AQA FOUNDATION · 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, 120 and one more. The fourth angle is**

- A 60
- B 120
- C 70
- D 240

Understand It with Pulse | Flag a mistake

2 **A Ferris wheel has 10 equally spaced gondolas. The angle between neighbouring gondolas is**

- A 41
- B 36
- C 31
- D 10

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3 **Two parallel lines are cut by a transversal. One angle is 57°. Its alternate angle is**

- A 123°
- B 57°
- C 97°
- D 303°

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4 **Each exterior angle of a regular polygon with 10 sides is**

A 32°

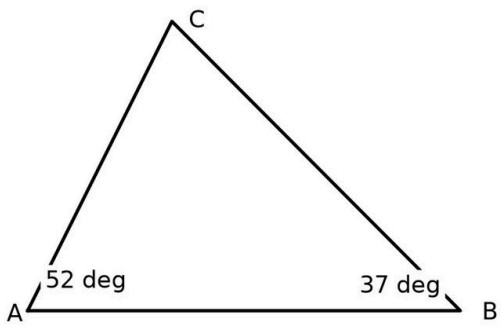
B 144°

C 36°

D 72°

Understand It with Pulse | Flag a mistake

5 **A triangle has two angles of 52° and 37°. The third angle is**



- **A** 91°
- **B** 128°
- **C** 106°
- **D** 89°

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6 **The sum of the interior angles of a polygon with 8 sides is**

- A 1440°
- B 1080°
- C 900°
- D 1260°

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7 **Two straight lines cross. One of the angles formed is 136°. The angle vertically opposite it is**

- A 90°
- B 136°
- C 44°
- D 224°

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8 **The sail of a sailing ship is a right-angled triangle with sides 6 m, 8 m and 10 m. A similar sail has a shortest side of 12 m. Its longest side is**

A 30

B 20

C 16

D 8

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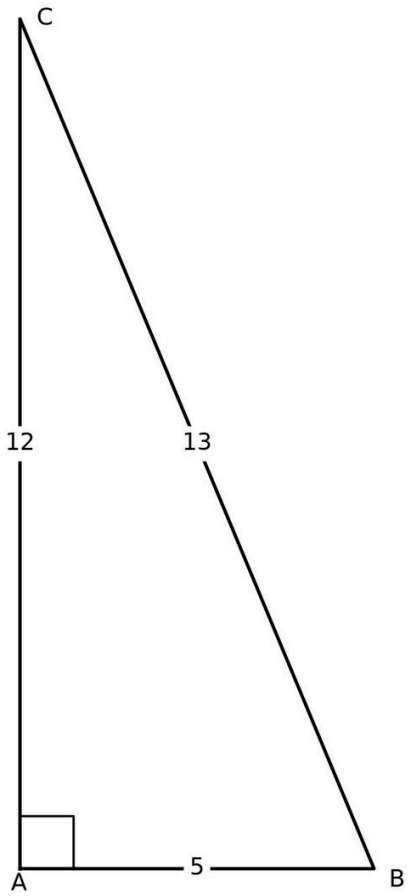
9 **The diagram shows a right-angled triangle with sides 5 cm, 12 cm and 13 cm. A similar triangle has a shortest side of 10 cm. Its longest side is**



A 26 cm

B 13 cm

C 39 cm

D 15 cm

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10 **A shape with area 12 cm² is enlarged by scale factor 3. The area of the enlarged shape is**

- **A** 324 cm²
- **B** 15 cm²
- **C** 108 cm²
- **D** 36 cm²

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ANSWER KEY

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

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