ENGLAND GCSE MATHS EDEXCEL 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, 70 and one more. The fourth angle is**

- A 120
- B 110
- C 290
- D 70

Understand It with Pulse | Flag a mistake

2 **A castle is 25 m tall. Its model is 50 cm tall. The scale factor from the model to the real castle is**

- A 60
- B 50
- C 40
- D 100

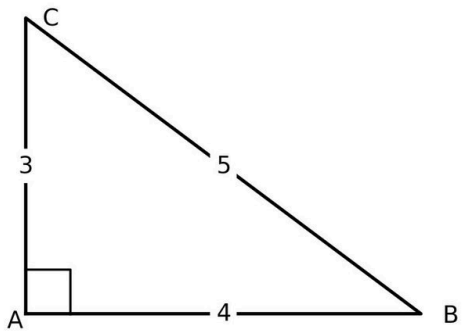
Understand It with Pulse | Flag a mistake

3 **The interior angle of a triangle is 101°. The exterior angle at the same vertex is**

- A 259°
- B 79°
- C 99°
- D 101°

Understand It with Pulse | Flag a mistake

4 **The diagram shows a right-angled triangle with sides 4 cm, 3 cm and 5 cm. A similar triangle has a shortest side of 6 cm. Its longest side is**



- **A** 5 cm
- **B** 15 cm
- **C** 10 cm
- **D** 7 cm

Understand It with Pulse | Flag a mistake

5 **Each exterior angle of a regular polygon with 6 sides is**

A 65°

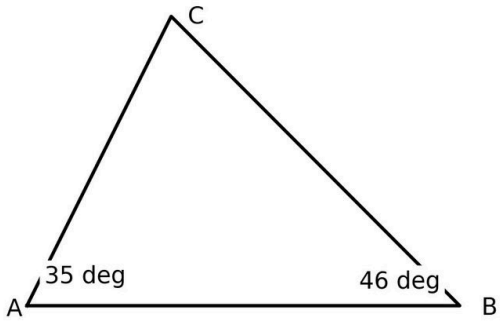
B 51°

C 120°

D 60°

Understand It with Pulse | Flag a mistake

6 **A triangle has two angles of 35° and 46°. The third angle is**



- **A** 81°
- **B** 114°
- **C** 99°
- **D** 145°

Understand It with Pulse | Flag a mistake

7 **Two straight lines cross. One of the angles formed is 105°. The angle vertically opposite it is**

A 255°

B 105°

C 90°

D 75°

Understand It with Pulse | Flag a mistake

8 **Two parallel lines are cut by a transversal. One angle is 85°. Its alternate angle is**

A 95°

B 85°

C 275°

D 125°

Understand It with Pulse | Flag a mistake

9 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 9 m. Its longest side is

- A 20
- B 15
- C 6
- D 12

Understand It with Pulse | Flag a mistake

10 Two angles sit on a straight line. One angle is 54°. The other angle is

- A 306°
- B 126°
- C 54°
- D 136°

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

© 2026 Brett Robbins. All Rights Reserved.