ENGLAND GCSE MATHS OCR HIGHER · UNIT 9 · 5 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 25 m tall. Its model is 50 cm tall. The scale factor from the model to the real castle is**

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

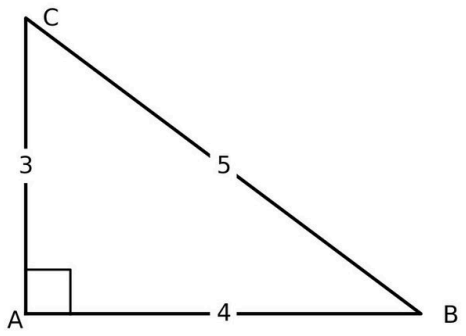
Understand It with Pulse | Flag a mistake

2 **A shape with area 12 cm² is enlarged by scale factor 2. The area of the enlarged shape is**

- **A** 14 cm²
- **B** 48 cm²
- **C** 96 cm²
- **D** 24 cm²

Understand It with Pulse | Flag a mistake

3 **The diagram shows a right-angled triangle with sides 4 cm, 3 cm and 5 cm. A similar triangle has a shortest side of 9 cm. Its longest side is**



- **A** 5 cm
- **B** 20 cm
- **C** 8 cm
- **D** 15 cm

Understand It with Pulse | Flag a mistake

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

A 720°

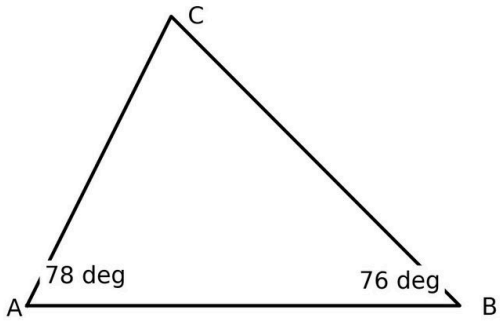
B 540°

C 360°

D 900°

Understand It with Pulse | Flag a mistake

5 **A triangle has two angles of 78° and 76°. The third angle is**



- **A** 102°
- **B** 41°
- **C** 154°
- **D** 26°

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. C
2. B
3. D
4. B
5. D

© 2026 Brett Robbins. All Rights Reserved.