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

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

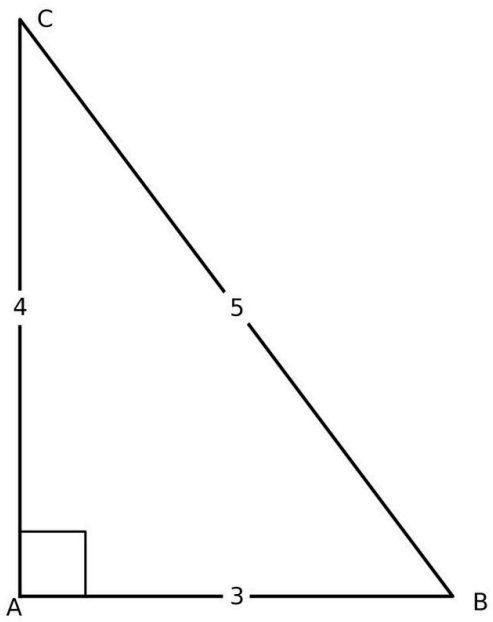
Understand It with Pulse | Flag a mistake

2 **A Ferris wheel has 8 equally spaced gondolas. The angle between neighbouring gondolas is**

- A 8
- B 40
- C 45
- D 50

Understand It with Pulse | Flag a mistake

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



A 20 cm

B 15 cm

C 8 cm

D 5 cm

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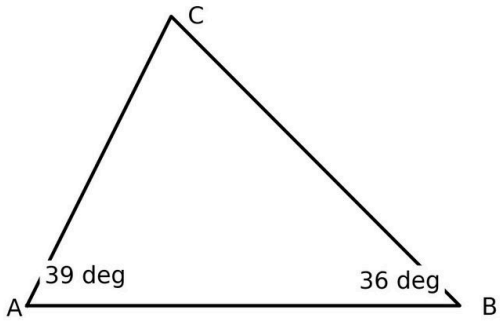
4 **A triangle has two angles of 39° and 36°. The third angle is**



- **A** 75°
- **B** 105°
- **C** 141°
- **D** 120°

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5 **Two parallel lines are cut by a transversal. One angle is 99°. Its alternate angle is**

- A 139°
- B 99°
- C 81°
- D 261°

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6 **Three angles meet at a point. Two of them are 62° and 63°. The third angle is**

- A 255°
- B 118°
- C 125°
- D 235°

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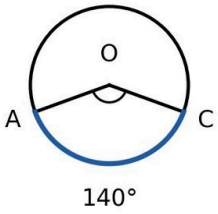
7 **An angle at the centre of a circle stands on an arc of 140°. The angle at the circumference standing on the same arc is**



- **A** 140°
- **B** 280°
- **C** 70°
- **D** 80°

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8 **Two straight lines cross. One of the angles formed is 122°. The angle vertically opposite it is**

- A 58°
- B 90°
- C 122°
- D 238°

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9 **A point is translated by the vector binom-4-2. The point moves**

- A 2 up and 4 right
- B 4 left and 2 up
- C 4 right and 2 down
- D 4 left and 2 down

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10 **The interior angle of a triangle is 79°. The exterior angle at the same vertex is**

A 101°

B 79°

C 281°

D 121°

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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