ENGLAND GCSE MATHS EDEXCEL FOUNDATION · UNIT 11 · 10 QUESTIONS

Geometry, Pythagoras, Trigonometry and Vectors — 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 passenger aeroplane takes off at an angle of 30° and flies 300 m. Its height is**

- A 140
- B 300
- C 150
- D 160

Understand It with Pulse | Flag a mistake

2 **A rocket climbs at an angle of 30° to the ground and travels 600 m. Its height is**

- A 300
- B 290
- C 310
- D 600

Understand It with Pulse | Flag a mistake

3 **A kite string is 14 m long and makes an angle of 30° with the ground. The height of the kite is**

- A 7
- B 8
- C 14
- D 6

Understand It with Pulse | Flag a mistake

4 **In a right-angled triangle, one angle is 45° and the side next to it is 6 cm. The side opposite the 45° angle is**

- A 7 cm
- B 12 cm
- C 5 cm
- D 6 cm

Understand It with Pulse | Flag a mistake

5 **In a right-angled triangle, the hypotenuse is 12 cm and one angle is 60°. The side next to the 60° angle is**

- A 6 cm
- B 5 cm
- C 12 cm
- D 7 cm

Understand It with Pulse | Flag a mistake

6 **A brown dog walks 6 m east and then 8 m north. How far is it from its starting point?**

- A 11
- B 14
- C 9
- D 10

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7 **In a right-angled triangle, the hypotenuse is 8 cm and one angle is 30°. The side opposite the 30° angle is**

- A 5 cm
- B 3 cm
- C 8 cm
- D 4 cm

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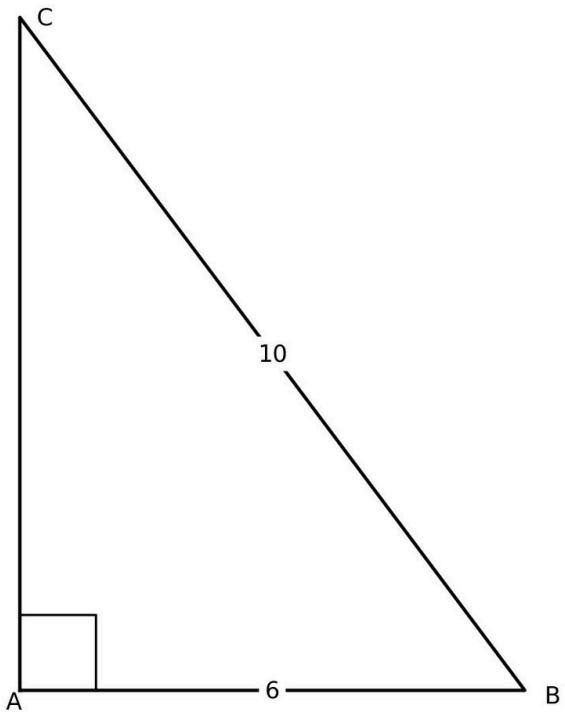
8 **A right-angled triangle has a hypotenuse of 10 cm and one side of length 6 cm. The other side is**



A 7 cm

B 9 cm

C 8 cm

D 4 cm

Understand It with Pulse | Flag a mistake

9 The vector a = (5, 5) and the vector b = (2, 1). The vector a + b is

- A (7, 6)
- B (3, 4)
- C (7, 4)
- D (8, 6)

Understand It with Pulse | Flag a mistake

10 A ladder 5 m long leans against a wall. Its foot is 3 m from the wall. How high up the wall does it reach?

- A 6
- B 7
- C 4
- D 3

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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