ENGLAND GCSE MATHS AQA HIGHER · 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 rocket climbs at an angle of 30° to the ground and travels 300 m. Its height is**

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

Understand It with Pulse | Flag a mistake

2 **A brown dog walks 9 m east and then 12 m north. How far is it from its starting point?**

- A 16
- B 15
- C 14
- D 21

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3 **A cuboid is 8 cm by 9 cm by 12 cm. The longest diagonal is**

- A 16 cm
- B 17 cm
- C 29 cm
- D 18 cm

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4 **In a right-angled triangle, the hypotenuse is 10 cm and one angle is 60°. The side next to the 60° angle is**

- A 10 cm
- B 6 cm
- C 5 cm
- D 4 cm

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5 **A kite string is 16 m long and makes an angle of 30° with the ground. The height of the kite is**

- A 16
- B 8
- C 7
- D 9

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6 **A ladder 15 m long leans against a wall. Its foot is 9 m from the wall. How high up the wall does it reach?**

- A 17
- B 12
- C 14
- D 9

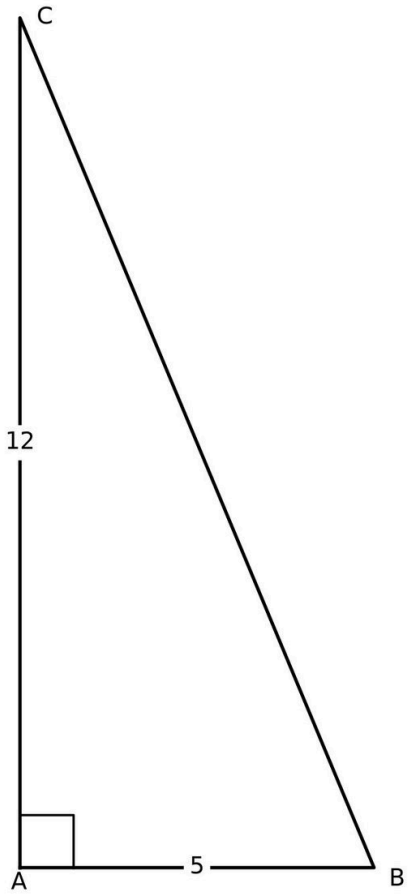
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7 **A sailing ship sails 9 km east and then 12 km north. How far is it from its starting point?**

- A 15
- B 14
- C 21
- D 16

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8 **A right-angled triangle has one side of length 5 cm and the other side of length 12 cm. The hypotenuse is**



A 17 cm

B 12 cm

C 13 cm

D 14 cm

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9 **In a right-angled triangle, the hypotenuse is 16 cm and one angle is 30°. The side opposite the 30° angle is**

- **A** 7 cm
- **B** 16 cm
- **C** 8 cm
- **D** 9 cm

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10 **The exact value of sin 60° is**

- **A** $\frac{1}{2}$
- **B** 1
- **C** $\sqrt{3}/2$
- **D** $\sqrt{2}/2$

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ANSWER KEY

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

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