

Pythagoras Practice Worksheet

Five practice questions for recognising and applying Pythagoras' theorem.

Core reminder

For a right-angled triangle, the square of the hypotenuse equals the sum of the squares of the other two sides: $a^2 + b^2 = c^2$, where c is the hypotenuse.

Practice questions

1. A right-angled triangle has shorter sides 6 cm and 8 cm. Find the hypotenuse.

Working: _____

Answer: _____

2. A right-angled triangle has hypotenuse 13 cm and one shorter side 5 cm. Find the other shorter side.

Working: _____

Answer: _____

3. A ladder reaches 12 m up a wall. Its base is 5 m from the wall. Find the ladder length.

Working: _____

Answer: _____

4. A rectangular screen is 24 cm wide and 10 cm high. Find the diagonal length.

Working: _____

Answer: _____

5. A right-angled triangle has hypotenuse 17 cm and one shorter side 8 cm. Find the remaining side.

Working: _____

Answer: _____

Check before you finish

Did you identify the hypotenuse correctly? Did you square before adding/subtracting? Did you take the square root at the end? Did you include units?