Blurt it

Step 1

Name _____ Date _____

1. Cover your notes and put your phone face down.
2. Set a timer for 5 minutes.
3. Write down everything you remember about Pythagoras' theorem: methods, key words, examples, and mistakes to avoid. Diagrams count too.

Stuck? Start with one of these: hypotenuse · right angle · square root

When the timer ends, turn over and check what you remembered.

Speca is an independent product and is not affiliated with, endorsed by, or sponsored by AQA or any other exam board.

GCSE MATHS · PYTHAGORAS' THEOREM

Check it, fix it, space it

Steps 2, 3 and 4

Check it

Tick each idea you wrote down, even in your own words.

- [ ] Pythagoras' theorem only works in right-angled triangles
- [ ] The hypotenuse is the side opposite the right angle, and it is always the longest side
- [ ] Pythagoras' theorem: $a^2 + b^2 = c^2$, where c is the hypotenuse
- [ ] Label the triangle first: mark the right angle and the hypotenuse
- [ ] Finding the hypotenuse: square the two shorter sides, add, then square root
- [ ] Finding a shorter side: hypotenuse squared minus the other side squared, then square root
- [ ] Do not forget the last square root, or your answer is still a squared value
- [ ] Spot the right-angled triangle hidden in a real problem, such as a ladder or a diagonal
- [ ] Round only at the end, to the accuracy the question asks for

Higher only

- [ ] Use Pythagoras in 3D: find the right-angled triangle inside the solid first
- [ ] Find the diagonal of a cuboid by using Pythagoras twice
- [ ] Combine Pythagoras and trigonometry in multi-step problems
- [ ] Converse: if the two shorter sides squared add to the longest side squared, it is right-angled
- [ ] Give an exact answer in surd form when the square root is not a whole number

Key words to use: hypotenuse · right angle · theorem · square · square root · surd · adjacent opposite

I remembered _____ out of 9. **Higher only: _____ out of 5.**

Fix it

Pick 3 ideas you missed. Look them up, then write each one correctly.

1

2

3

Space it

Blurt again on a fresh sheet. Gaps help you remember for longer.

Tomorrow

Date _____
Score _____ / 9
Higher only _____ / 5

In 3 days

Date _____
Score _____ / 9
Higher only _____ / 5

In a week

Date _____
Score _____ / 9
Higher only _____ / 5

Speca is an independent product and is not affiliated with, endorsed by, or sponsored by AQA or any other exam board.