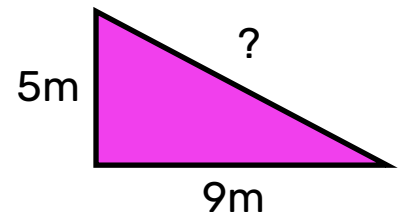


Robot Maths - Pythagoras' Theorem

We use Pythagoras' Theorem to work out a missing length of a right-angled triangle.

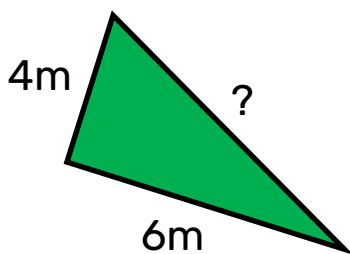


Are you trying to work out the longest side?

Yes



- 1) Square the two shorter sides
- 2) **Add** the results together
- 3) Find the square root
- 4) Round your answer appropriately and use the correct unit



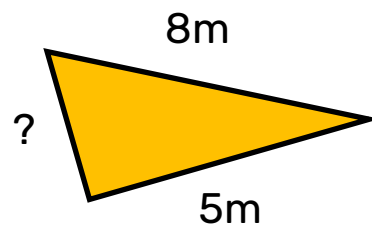
Example

- 1) $4^2 = 16$ and $6^2 = 36$
- 2) $16 + 36 = 52$
- 3) $\sqrt{52} = 7.2111\dots$
- 4) 7.2m

No



- 1) Square the two shorter sides
- 2) Take the bigger result and **subtract** the smaller result
- 3) Find the square root
- 4) Round your answer appropriately and use the correct unit



Example

- 1) $8^2 = 64$ and $5^2 = 25$
- 2) $64 - 25 = 39$
- 3) $\sqrt{39} = 6.2449\dots$
- 4) 6.2m