Pythagoras' Theorem: Finding the Missing Side

MEMORANDUM

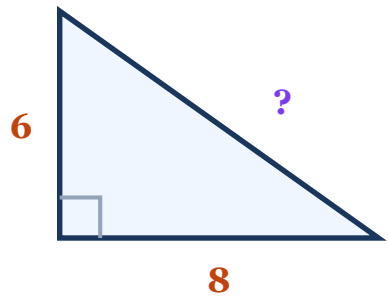
Name: ..... Class: .....

Date: .....

MARK ____ / 8

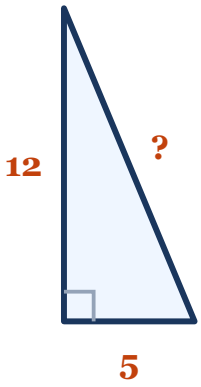
Answer all questions. Show all your working — marks are awarded for method as well as the final answer. **Teacher copy: accept any correct equivalent method.**

1 A right triangle has legs 6 and 8. Find the hypotenuse. (2)



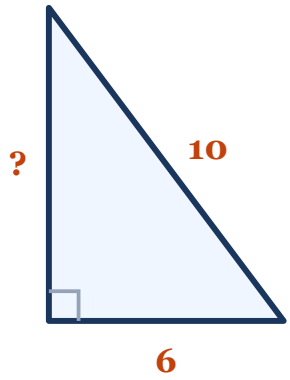
$c^2 = 36 + 64 = 100 \rightarrow c = 10$ ✓✓ (2)

2 Legs of 5 and 12 — find the hypotenuse. (2)



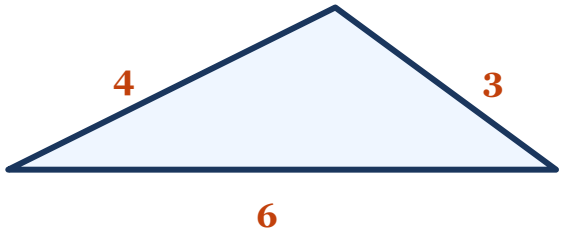
$c^2 = 25 + 144 = 169 \rightarrow c = 13$ ✓✓ (2)

3 Hypotenuse 10, one leg 6. Find the other leg. (2)



$b^2 = 100 - 36 = 64 \rightarrow b = 8$ ✓✓ (2)

4 Is a triangle with sides 3, 4, 6 right-angled? (2)



$3^2 + 4^2 = 25$ but $6^2 = 36$ — not equal, so no ✓✓ (2)

TOTAL: 8 marks

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