

Right Triangle Worksheet 2 — Pythagorean Theorem (Intermediate)

RightTriangleSolver.com • Missing sides, square roots, decimals and word problems

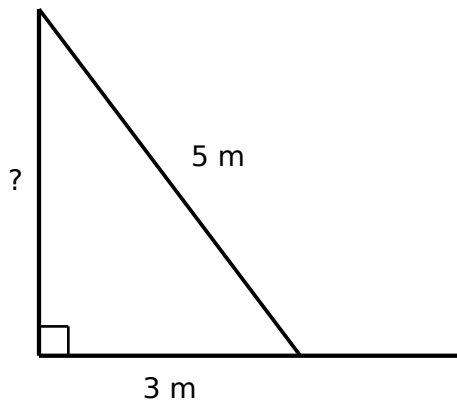
Name: _____ Date: _____

Instructions: Show your working for every question. Where a question asks for an exact answer, give the square root form first, then round to two decimal places.

1. Find the hypotenuse of a right triangle with legs of 8 cm and 15 cm.
2. Find the hypotenuse of a right triangle with legs of 20 in and 21 in.
3. Find the hypotenuse of a right triangle with legs of 12 m and 35 m.
4. A right triangle has a hypotenuse of 25 cm and one leg of 24 cm. Find the other leg.
5. A right triangle has a hypotenuse of 26 in and one leg of 10 in. Find the other leg.
6. A right triangle has a hypotenuse of 41 m and one leg of 9 m. Find the other leg.
7. The legs of a right triangle measure 5 cm and 7 cm. Find the hypotenuse. Give the exact answer as a square root, then round to two decimal places.
8. A right triangle has a hypotenuse of 11 cm and one leg of 6 cm. Find the other leg. Give the exact answer as a square root, then round to two decimal places.
9. The legs of a right triangle measure 4.5 cm and 6 cm. Find the hypotenuse.

10. A right triangle has a hypotenuse of 12.5 in and one leg of 7.5 in. Find the other leg.

11. A 5 m ladder leans against a wall. The foot of the ladder stands 3 m from the wall. How high up the wall does the ladder reach? Assume the wall is vertical and the ground is flat.



12. A rectangular field measures 30 m by 40 m. A path runs straight across the field from one corner to the opposite corner. How long is the path?

