GRADE 8 MATH · CLASSWORK · ADVANCED

Use the Pythagorean Theorem to Find the Length of a Leg

SCORE / 25

01 Part A · Practice

To find a leg, subtract: $b^2 = c^2 - a^2$, then take the square root.

EXAMPLE

A right triangle has hypotenuse 17 **in. and one leg** 8 **in. Find the other leg.**

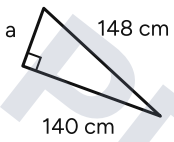
1. $8^2 + b^2 = 17^2$
2. $b^2 = 289 - 64 = 225$
3. $b = \sqrt{225} = 15$ in.

1 ●○○ Solve for n ($n > 0$): $33^2 + n^2 = 55^2$

2 ●○○ A right triangle has hypotenuse 185 yd and one leg 60 yd. Find the other leg.

3 ●○○ Hypotenuse 40 cm, one leg 35 cm. Find the other leg to the nearest tenth.

4 ●○○ Find the length of the leg a.



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Preview - the full worksheet and its answer key are at primeworksheet.com