

Worksheet Level 2:

Goals:

Use Pythagorean Theorem to find missing hypotenuse on right triangle

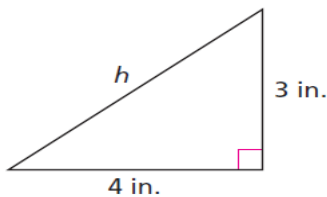
Use Pythagorean Theorem to find missing leg on a right triangle

Concept # _____

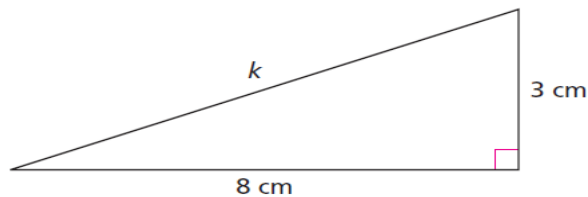
Practice #1

Find the missing length(s).

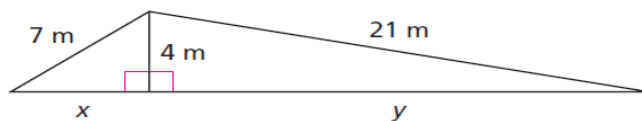
5.



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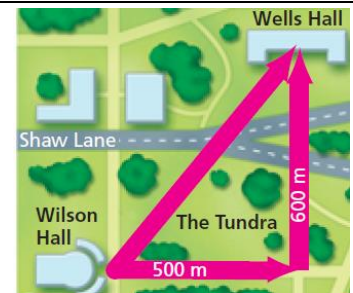
7.



Practice #2

Moesha, a college student, needs to walk from her dorm room in Wilson Hall to her math class in Wells Hall. Normally, she walks 500 meters east and 600 meters north along the sidewalks, but today she is running late. She decides to take the shortcut through the Tundra.

- How many meters long is Moesha's shortcut?
- How much shorter is the shortcut than Moesha's usual route?



Practice #3

At Emmit's Evergreen Farm, the taller trees are braced by wires. A wire extends from 2 feet below the top of a tree to a stake in the ground. What is the tallest tree that can be braced with a 25-foot wire staked 15 feet from the base of the tree?

