

# Pythagorean Theorem

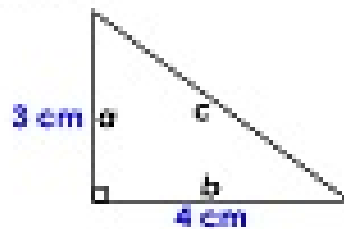
## Worksheet Whole Numbers

Name: \_\_\_\_\_

### Pythagorean Theorem

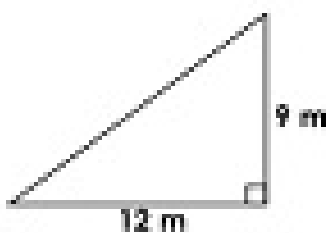
The Pythagorean Theorem can be used to find the length of a side of a right triangle if the lengths of the other two sides are known. The formula to find the length of any side of a right triangle is  $a^2 + b^2 = c^2$ . The **hypotenuse** is side  $c$ . It is always the longest side and is always opposite the right angle.

example:

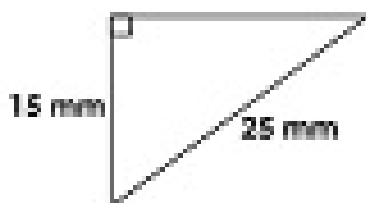


$$\begin{aligned}a^2 + b^2 &= c^2 \\3^2 + 4^2 &= c^2 \\9 + 16 &= c^2 \\25 &= c^2 \\5 &= c\end{aligned}$$

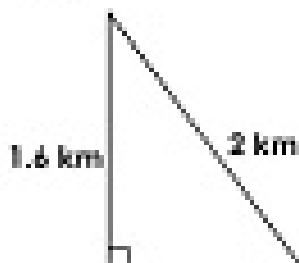
Find the lengths of the missing sides.



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