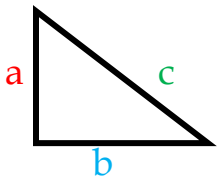
In any right triangle with sides *a* and *b* and hypotenuse side **c**. For example:

$$a^2 + b^2 = c^2$$

a = 3
b = 4
c = ???

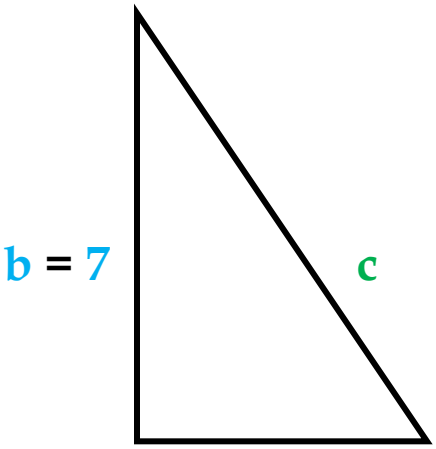


Using the formula: $a^2 + b^2 = c^2$ we can find the answer.

$3^2 + 4^2 = c^2$

$9 + 16 = c^2$

$25 = c^2$ $\sqrt{25} = \sqrt{c^2}$ so $5 = c$

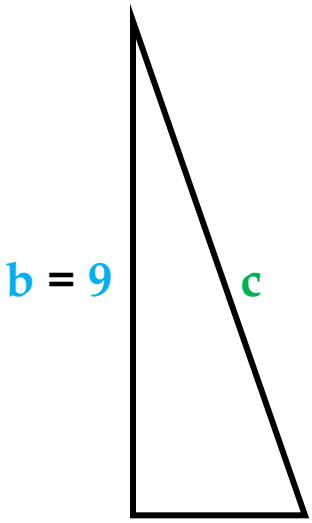


$a^2 + b^2 = c^2$

__ + __ = __

__ + __ = __

C = __

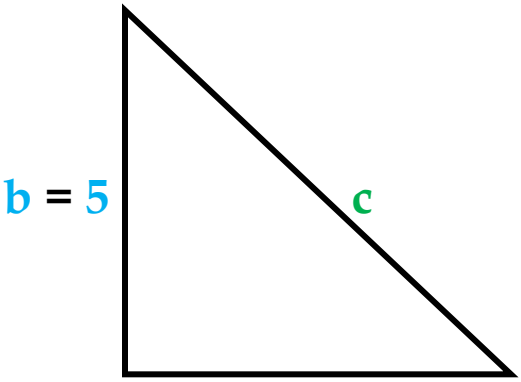


$a^2 + b^2 = c^2$

__ + __ = __

__ + __ = __

C = __



$a^2 + b^2 = c^2$

__ + __ = __

__ + __ = __

C = __