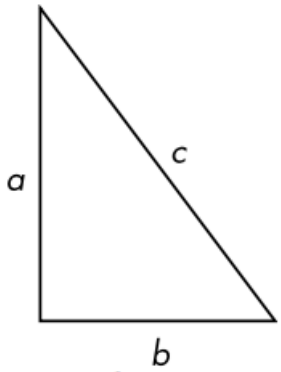
If you know the lengths of two sides of a right triangle, you can use the Pythagorean Theorem to calculate the length of the third side.

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

In this right triangle,
the length of side a is 3 cm
and the length of side b is 4 cm.
What is the length of side c?



Name: _____

Period: ____ HOMEWORK

Unit 8: Pythagorean Theorem

Due: 4 / 25 / 2019

1. Write the formula for the Pythagorean Theorem. _____

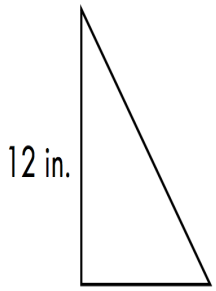
2. Write the lengths of a and b in the formula. _____

3. Find the squares. _____

4. Solve for c. _____

Use the Pythagorean Theorem to find the length of each unknown side.

5.



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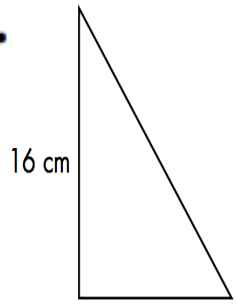

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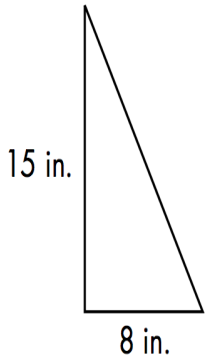

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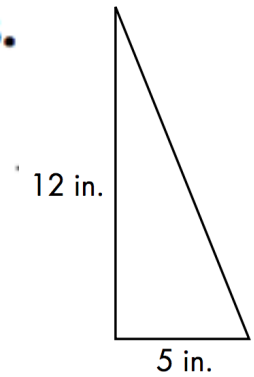

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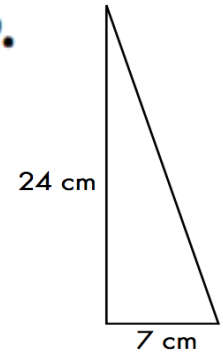

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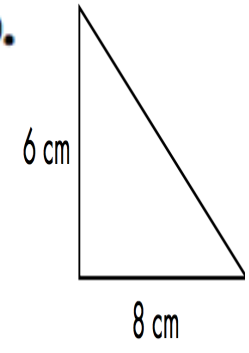
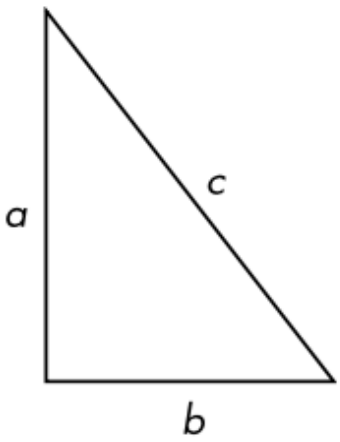


If you know the lengths of two sides of a right triangle, you can use the Pythagorean Theorem to calculate the length of the third side.

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

In this right triangle,
the length of side *a* is 8 cm
and the length of side c is
10 cm. What is the length of side *b*?



1. Write the formula for the Pythagorean Theorem. _____

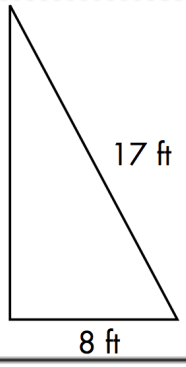
2. Write the lengths of *a* and *c* in the formula. _____

3. Find the squares. _____

4. Solve for *b*. _____

Use the Pythagorean Theorem to find the length of each unknown side.

5.



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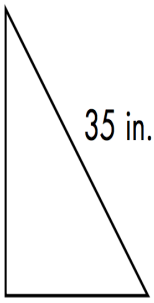

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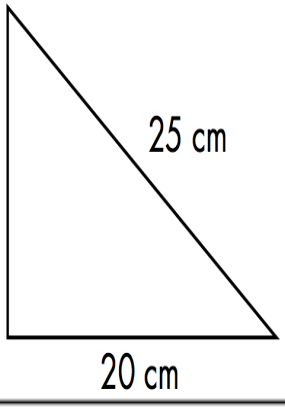

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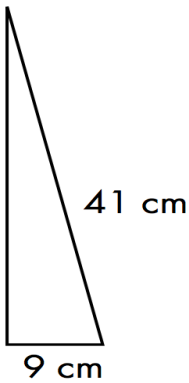

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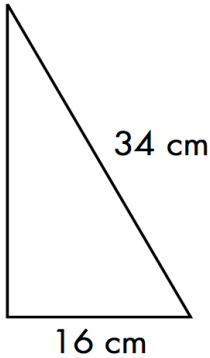

10.