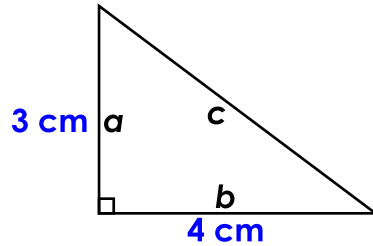


Name: \_\_\_\_\_

# 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:**



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

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

$$9 + 16 = c^2$$

$$25 = c^2$$

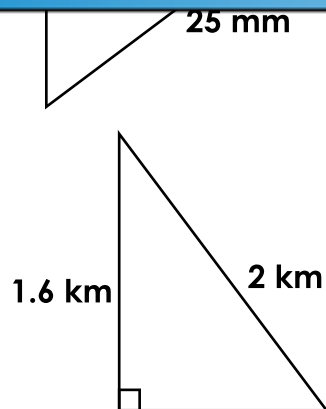
$$5 = c$$

Find the lengths of the missing sides.

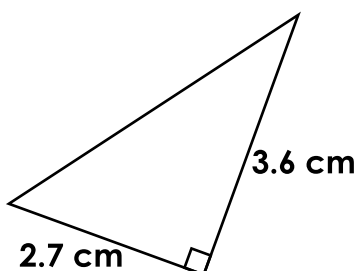


# Preview

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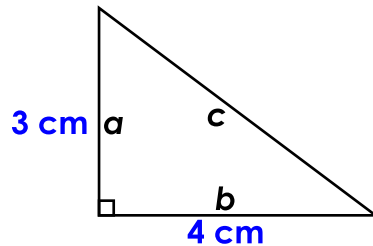
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# ANSWER KEY

## Pythagorean Theorem

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$$5 = c$$

Find the lengths of the missing sides.

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