



The Pythagorean Theorem

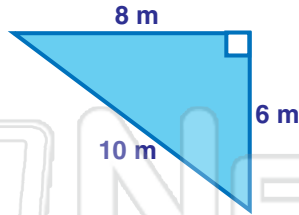
Math

Name _____ Class _____ Date _____

- 1 How long is the **hypotenuse** in the triangle shown? Circle the answer.

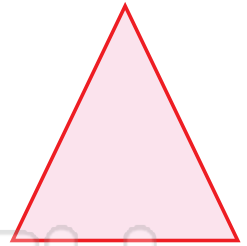
$$a^2 + b^2 = c^2$$

6 m 8 m
10 m 100 m



- 6 What **kind of triangle** is shown in the figure?

acute right
obtuse isosceles

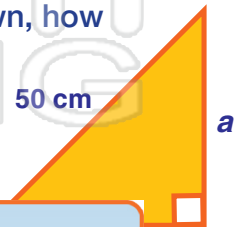


- 2 In a **right triangle**, one leg measures **3 in.** and the other leg measures **4 in.** What is the length of the **hypotenuse**?

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

- 7 Based on the figure shown, how long is the **missing leg**?

9 cm 20 cm



3



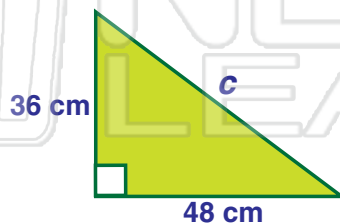
PREVIEW

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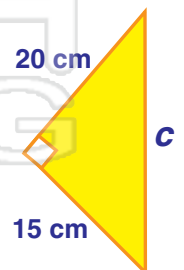
$\sqrt{27}$ in. $\sqrt{36}$ in. $\sqrt{45}$ in. 7 in.

- 5 Based on the figure shown, calculate the length of the **hypotenuse**. Show your work.



- 10 Based on the figure shown, how long is the **hypotenuse**?

25 cm $\sqrt{635}$ cm
26 cm $\sqrt{685}$ cm





The Pythagorean Theorem - Answer Key

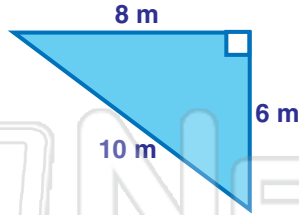
Math

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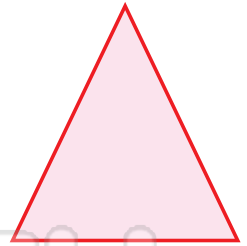
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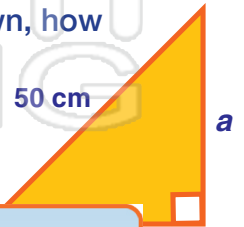


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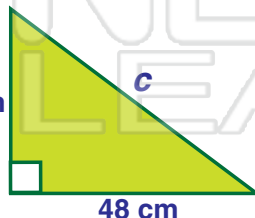
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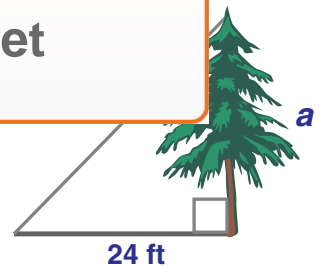
$$36^2 + 48^2 = c^2$$

$$1,296 + 2,304 = c^2$$

$$c^2 = 3,600 \text{ so } c = 60 \text{ cm}$$



- 17 ft 20 ft
 18 ft 22 ft



- 10 Based on the figure shown, how long is the **hypotenuse**?

- 25 cm $\sqrt{635}$ cm
 26 cm $\sqrt{685}$ cm

