

CHECK YOUR UNDERSTANDING QUESTIONS

Before you start, circle 3 questions that you think are most important for your learning. The answer key is on Mrs. Tennant's website.

1. Show how you would manipulate the Pythagorean Theorem formula if you need to find side a or side b of a right triangle.

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

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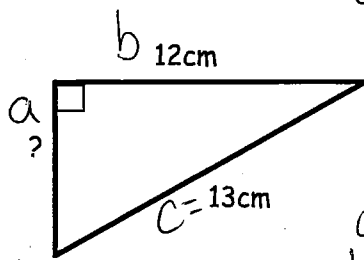
$$a^2 = c^2 - b^2$$

$$a = \sqrt{c^2 - b^2}$$

OR $b^2 = c^2 - a^2$

$$b = \sqrt{c^2 - a^2}$$

2. Find the unknown sides of the following right triangles.



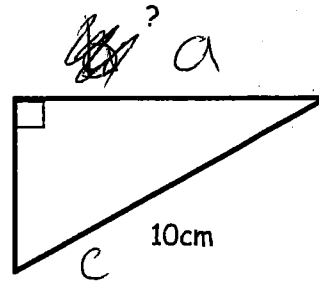
$$a = \sqrt{c^2 - b^2}$$

$$a = \sqrt{13^2 - 12^2}$$

$$a = \sqrt{169 - 144}$$

$$a = \sqrt{25}$$

$$a = 5\text{cm}$$



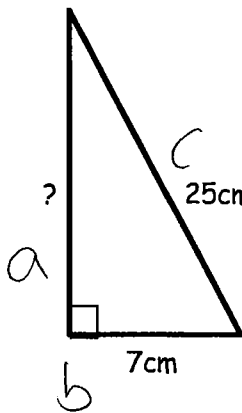
$$a = \sqrt{c^2 - b^2}$$

$$a = \sqrt{10^2 - 6^2}$$

$$a = \sqrt{100 - 36}$$

$$a = \sqrt{64}$$

$$a = 8$$



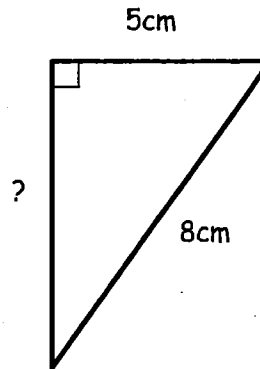
$$a = \sqrt{c^2 - b^2}$$

$$a = \sqrt{25^2 - 7^2}$$

$$a = \sqrt{625 - 49}$$

$$a = \sqrt{576}$$

$$a = 24\text{cm}$$



$$a = \sqrt{c^2 - b^2}$$

$$a = \sqrt{8^2 - 5^2}$$

$$a = \sqrt{64 - 25}$$

$$a = \sqrt{39}$$

$$a = 6.2\text{cm}$$