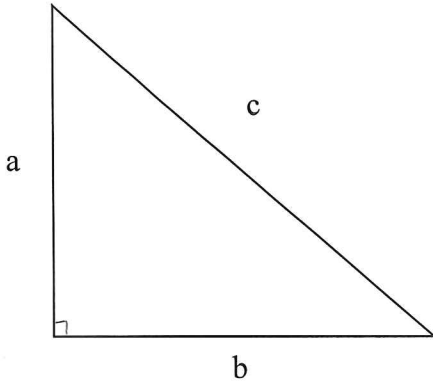


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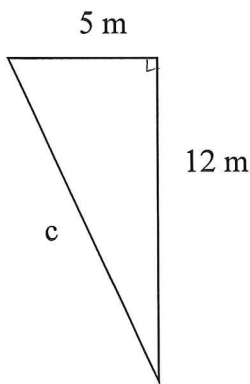
Key

Pythagorean Theorem Warm UP Review



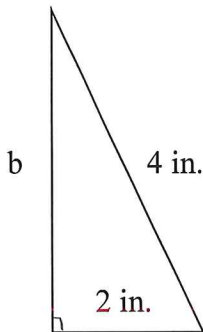
$$a^2 + b^2 = c^2$$

EXAMPLE 1: Find the length of **c**.



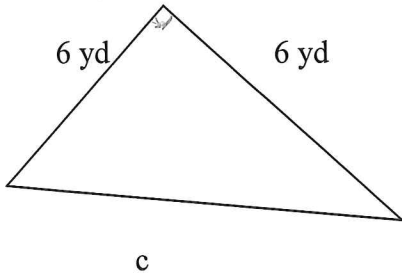
$$\begin{aligned} 5^2 + 12^2 &= c^2 \\ 25 + 144 &= c^2 \\ 169 &= c^2 \\ \boxed{13\text{m} = c} \end{aligned}$$

EXAMPLE 2: Find the length of **b**.



$$\begin{aligned} 2^2 + b^2 &= 4^2 \\ 4 + b^2 &= 16 \\ \sqrt{b^2} &= \sqrt{12} \\ \textcircled{2} \times \textcircled{14} \textcircled{13} \\ \boxed{b = 2\sqrt{3}\text{in}} \end{aligned}$$

EXAMPLE 3: Find the length of c .



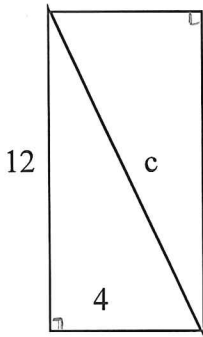
$$b^2 + b^2 = c^2$$
$$36 + 36 = c^2$$
$$\sqrt{72} = c$$

$\sqrt{36}$ $\sqrt{2}$

6

$$c = 6\sqrt{2} \text{ yd}$$

EXAMPLE 4: Find the length of c .



$$12^2 + 4^2 = c^2$$
$$144 + 16 = c^2$$
$$\sqrt{160} = c$$

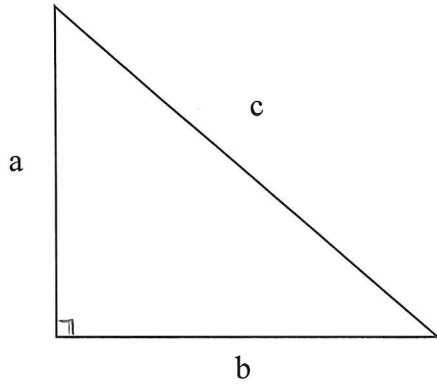
$\sqrt{16}$ $\sqrt{10}$

4

$$c = 4\sqrt{10}$$

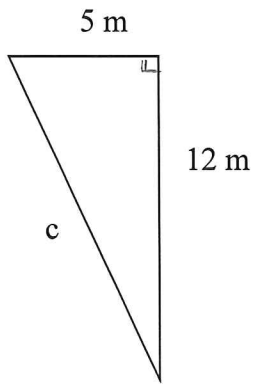
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Pythagorean Theorem Warm UP Review

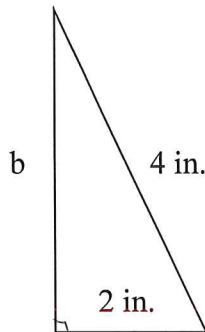


$$a^2 + b^2 = c^2$$

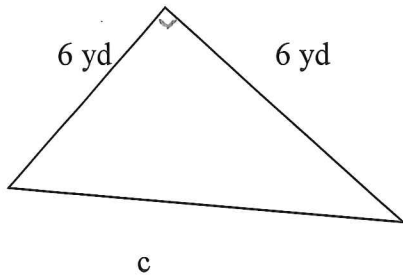
EXAMPLE 1: Find the length of **c**.



EXAMPLE 2: Find the length of **b**.



EXAMPLE 3: Find the length of **c**.



EXAMPLE 4: Find the length of **c**.

