## Unit 8 Lesson 8: Finding Unknown Side Lengths

### 1 Which One Doesn’t Belong: Equations (Warm up)

#### Student Task Statement

Which one doesn’t belong?

$3^{2}+b^{2}=5^{2}$

$b^{2}=5^{2}−3^{2}$

$3^{2}+5^{2}=b^{2}$

$3^{2}+4^{2}=5^{2}$

### 2 Which One Is the Hypotenuse?

#### Student Task Statement

Label all the hypotenuses with $c$.



### 3 Find the Missing Side Lengths

#### Student Task Statement

1. Find $c$.
* 
*
1. Find $b$.
* 
1. A right triangle has sides of length 2.4 cm and 6.5 cm. What is the length of the hypotenuse?
2. A right triangle has a side of length $\frac{1}{4}$ and a hypotenuse of length $\frac{1}{3}$. What is the length of the other side?
3. Find the value of $x$ in the figure.
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