

## 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?

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

$$b^2 = 5^2 - 3^2$$

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

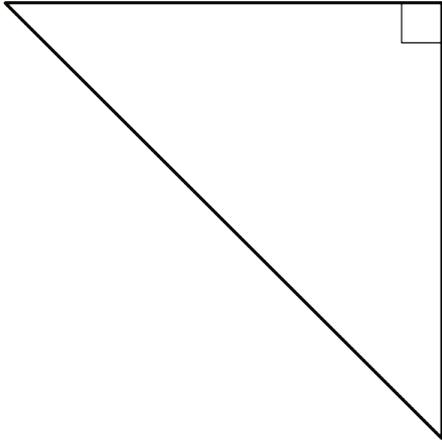
$$3^2 + 4^2 = 5^2$$

## 2 Which One Is the Hypotenuse?

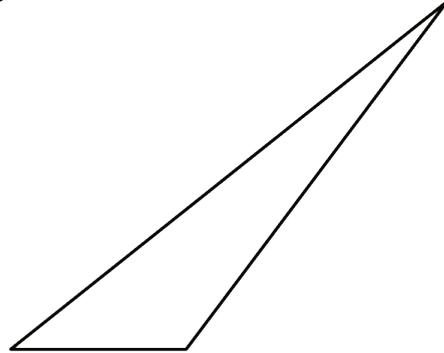
### Student Task Statement

Label all the hypotenuses with  $c$ .

A



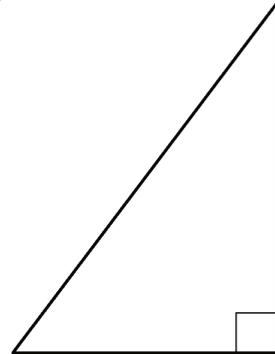
B



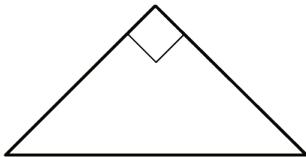
C



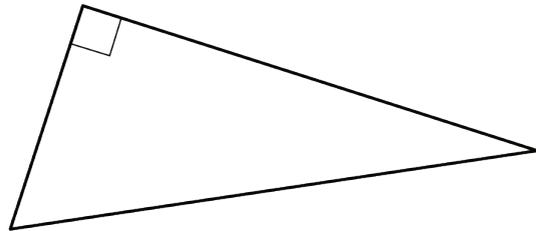
D



E



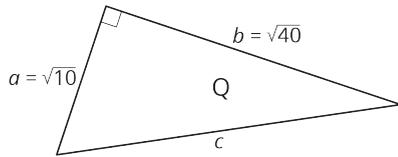
F



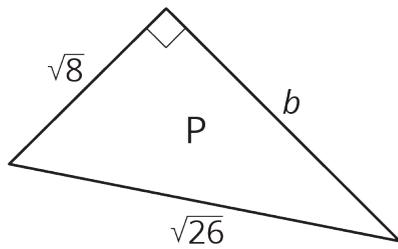
### 3 Find the Missing Side Lengths

#### Student Task Statement

1. Find  $c$ .



2. Find  $b$ .



3. A right triangle has sides of length 2.4 cm and 6.5 cm. What is the length of the hypotenuse?
4. 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?
5. Find the value of  $x$  in the figure.

