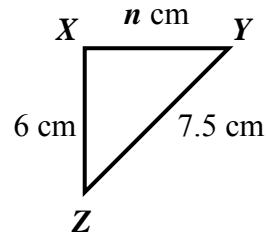
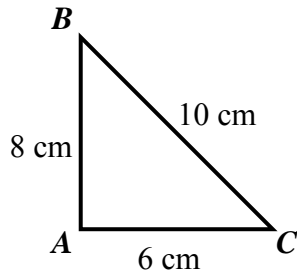


## Reteaching Page

## 8.4 – Similar Figures

Figures that have the same shape but may be different in sizes are **similar**.

We call them proportional because their corresponding sides will create a proportion. The corresponding angles will **always be congruent**!

**Corresponding Angles**

Angle A corresponds to angle X

Angle B corresponds to angle Z

Angle C corresponds to angle Y

**Corresponding Sides**

$\overline{BC}$  corresponds to  $\overline{YZ}$

$\overline{AC}$  corresponds to  $\overline{XY}$

$\overline{AB}$  corresponds to  $\overline{XZ}$

To find the missing measurement in similar figures, you need to set up a proportion that compares the sides of  $\triangle ABC$  and the sides of  $\triangle XYZ$ .

Set up a proportion

$$\frac{BC}{AC} = \frac{YZ}{XY}$$

Substitute values for sides

$$\frac{10}{6} = \frac{7.5}{n}$$

Solve for  $n$ !

$$6 * 7.5 = 45.0 \div 10 = 4.5$$

$$n = 4.5$$

The following figures are similar. Find the missing measurement.

