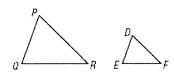
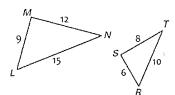
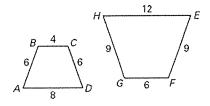
1- Given the similar figures, name all pairs of corresponding sides and angles. Look at the similarity statement to help.

2. 
$$\Delta PQR \sim \Delta DEF$$



3. 
$$\Delta LMN \sim \Delta RST$$





$$\frac{\overline{QP} \xrightarrow{V} \overline{ED}}{\overline{PR} \xrightarrow{D}} \qquad \angle Q \cong \underline{\angle E} \qquad \overline{LM} \xrightarrow{RS} \qquad \angle L \cong \underline{\angle R} \\
\overline{PR} \xrightarrow{DF} \qquad \angle P \cong \underline{\angle D} \qquad \overline{MN} \xrightarrow{ST} \qquad \angle M \cong \underline{\angle S} \\
\overline{RQ} \xrightarrow{FE} \qquad \angle R \cong \underline{\angle F} \qquad \overline{NL} \xrightarrow{TR} \qquad \angle N \cong \underline{\angle T}$$

$$\frac{\overline{LM} \to RS}{MN \to ST} \quad \angle L \cong \angle R$$

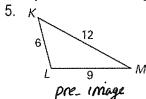
$$\frac{\overline{NL} \to TR}{NL} \quad \angle N \cong \angle S$$

$$\frac{\overline{AB} \to \overline{HG}}{BC \to GF} \quad \angle A \cong \angle H$$

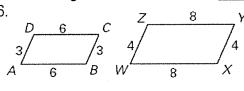
$$\overline{CD} \to \overline{FE} \quad \angle B \cong \angle G$$

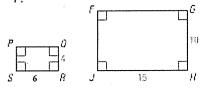
$$\overline{DA} \to EA \quad \angle D \cong \angle E$$

Complete the similarity statement for the similar figures and then find the scale factor . REDUCE fractions!

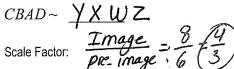




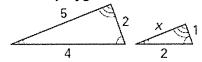




Scale Factor: 
$$\frac{Image}{pre\_image} = \frac{6}{9} = \frac{2}{3}$$



The two polygons are similar. Write a proportion and solve for x.



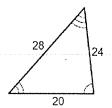
1- What part of the figure are you solving for?

Side X

2- Which property of similar figures are you using?

Corresponding sides are proportional

- 3- Set Up Equations/Proportions (may vary)
- 4- Solve 2x=5  $(x=\frac{5}{2}=2.5)$





1- What part of the figure are you solving for?

Side X

2- Which property of similar figures are you using?

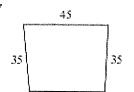
Corresponding Sides are proportional.

3- Set Up Equation/Proportion (Hay Vary)

$$\frac{x}{28} = \frac{6}{24}$$

4- Solve

$$\frac{24 \times = 168}{24} = \frac{1}{24} = \frac{7}{24}$$



1- What part of the figure are you solving for?



2- Which property of similar figures are you using?

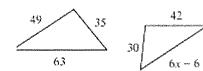
Corresponding Sides are proportional

3- Set Up Equation/Proportion

$$\frac{2x+4}{45} = \frac{16}{40}$$

4- Solve





5- What part of the figure are you solving for?



6- Which property of similar figures are you using?

Corresponding Sides are proportional

7- Set Up Equation/Proportion (May Vary)

$$\frac{6x-6}{63} = \frac{42}{49}$$

8- Solve

$$\frac{294x - 294 = 2646}{\frac{294}{294}} = \frac{2940}{294} = \frac{x=10}{}$$

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