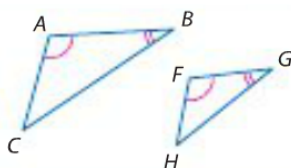


7-3**Similar Triangles****SIMILAR TRIANGLES**

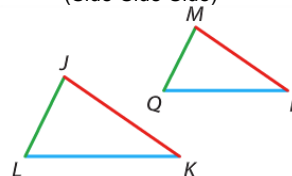
Two triangles are similar if all 3 corresponding angles are congruent AND if all 3 corresponding sides are proportional.

SHORTCUTS:

Just like Congruent Triangles, there are shortcuts that allow you to conclude if two triangles are similar using minimal information.

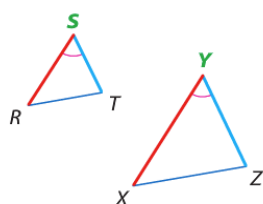
AA SIMILARITY
(Angle-Angle)

If $\angle A \cong \angle F$ and $\angle B \cong \angle G$, then
 $\triangle ABC \sim \triangle FGH$.

SSS SIMILARITY
(Side-Side-Side)

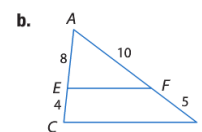
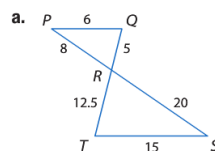
If $\frac{JK}{MP} = \frac{KL}{PQ} = \frac{LJ}{QM}$, then
 $\triangle JKL \sim \triangle MPQ$.

SAS SIMILARITY (Side-Angle-Side)



If $\frac{RS}{XY} = \frac{ST}{YZ}$ and $\angle S \cong \angle Y$, then
 $\triangle RST \sim \triangle XYZ$.

Determine whether the triangles are similar. If so, write a similarity statement. Explain your reasoning.



Find each measure.

4B. WR and RT

