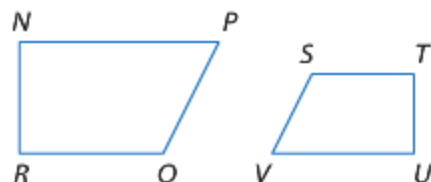
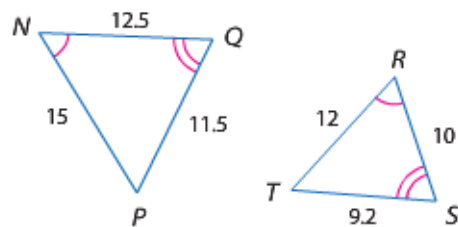


7.2 Examples

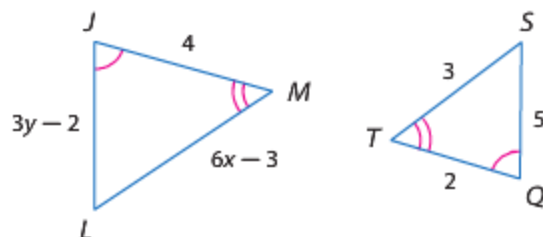
1. In the diagram, $NPQR \sim UVST$. List all pairs of congruent angles, and write a proportion that relates the corresponding sides. **See margin.**



2. Determine whether the triangles shown are similar. If so, write the similarity statement and scale factor. Explain your reasoning.



Find the value of each variable if $\triangle JLM \sim \triangle QST$.



4. If $MNPQ \sim XYZW$, find the scale factor of $MNPQ$ to $XYZW$ and the perimeter of each polygon.

