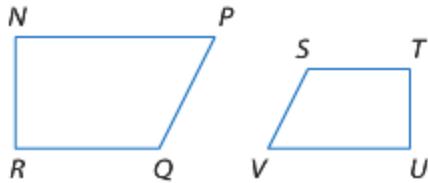
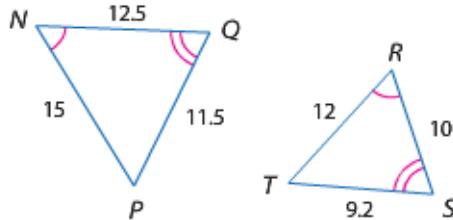


## 7.2 Examples

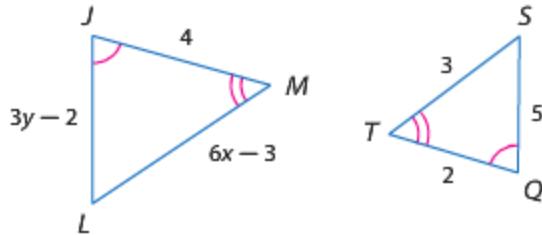
1. In the diagram,  $NPQR \sim UVST$ . List all pairs of congruent angles, and write a proportion that relates the corresponding sides. **See margin.**



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.

