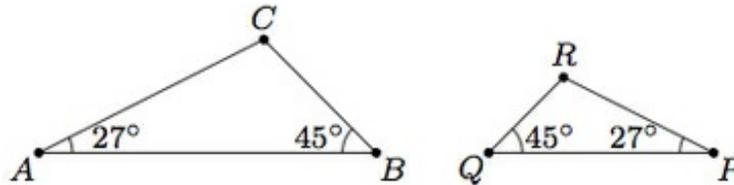




## 8.G Similar Triangles II

### Task

Triangles  $ABC$  and  $PQR$  below share two pairs of congruent angles as marked:



- Explain, using dilations, translations, reflections, and/or rotations, why  $\triangle PQR$  is similar to  $\triangle ABC$ .
- Are angles  $C$  and  $R$  congruent?
- Can you show the similarity in part **a** *without* using a reflection? What about *without* using a dilation? Explain.
- Suppose  $DEF$  and  $KLM$  are two triangles with  $m(\angle D) = m(\angle K)$  and  $m(\angle E) = m(\angle L)$ . Are triangles  $DEF$  and  $KLM$  similar?

