



## 7-3 Solve It!




You've already learned how to decide whether two polygons are similar. Use the same strategy here.

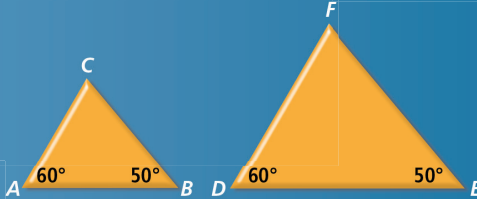


**SOLVE IT!**

Getting Ready!

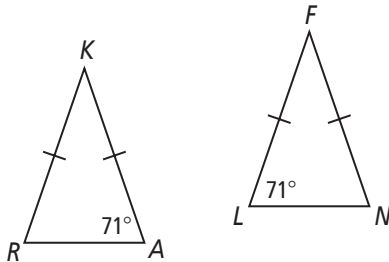


Are the triangles similar? How do you know? (Hint: Use a centimeter ruler to measure the sides of each triangle.)

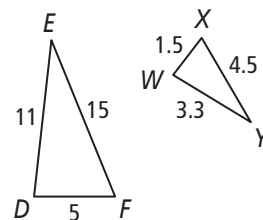


## 7-3 Lesson Quiz

1. Are  $\triangle KRA$  and  $\triangle FLN$  similar? How do you know?



2. Do you UNDERSTAND? A flagpole casts a shadow 18 ft long. At the same time, Rachael casts a shadow that is 4 ft long. If Rachael is 5 ft tall, what is the height of the flagpole?
3. Are the triangles similar? If so, what is the similarity statement?



### Answers

#### Solve It!

Yes; corresp.  $\sphericalangle$ s are  $\cong$  and corresp. sides are proportional.

#### Lesson Quiz

1. yes; by the AA Similarity Postulate
2. 22 ft 6 in.
3. yes;  $\triangle DEF \sim \triangle WYX$