

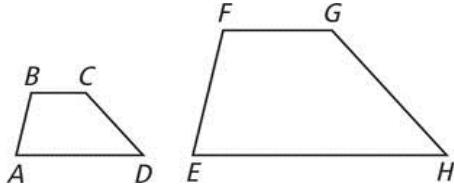
# 2-8 Practice

## Proportions and Similar Figures

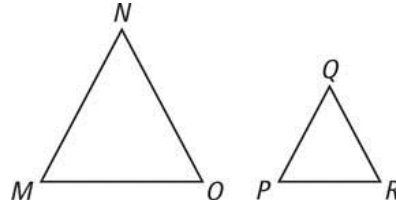
Form K

The figures in each pair are similar. Identify the corresponding sides and angles.

1.  $ABCD \sim EFGH$

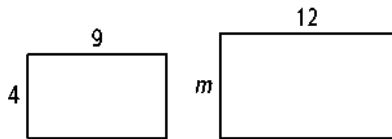


2.  $\triangle MNO \sim \triangle PQR$

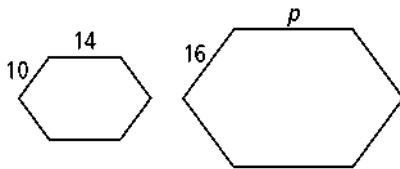


The figures in each pair are similar. Find the missing length.

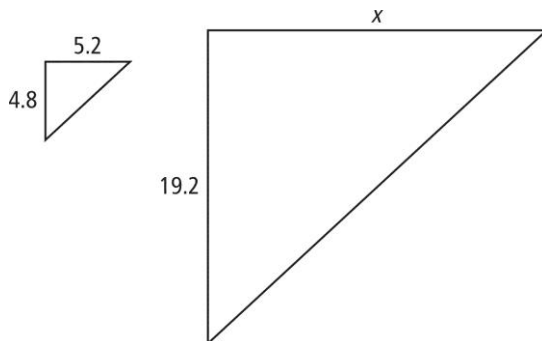
3.



4.



5.



**2-8****Practice** (continued)

Form K

**Proportions and Similar Figures**

The scale of a map is 0.25 cm : 15 km. Find the actual distance corresponding to each map distance.

6. 0.75 cm

7. 2 cm

8. 3.5 cm

9. 5.25 cm

10. For a celebration a town is going to pass out miniature replicas of the town's bell. The replicas are 9 in. tall. If the scale of the replica is 1 in. : 0.5 ft, how tall is the actual bell?
11. An architect created a scale model of what a college campus will look like once construction is finished. The scale for the model is 2 in. : 25 ft. The tallest building in the model is 10 in. tall. How tall is the actual building?
12. A model of a golf course says that hole #9 is 175 yards long. If the scale of the model is 2 in. : 20 yards, how many inches are there between the tee and the hole on the model?
13. **Open-Ended** Give an example of similar figures in your school.
14. **Reasoning** You are given two similar triangles. You know that one pair of corresponding sides is equal. What do you know about the other sides? Explain.