

## 2-8

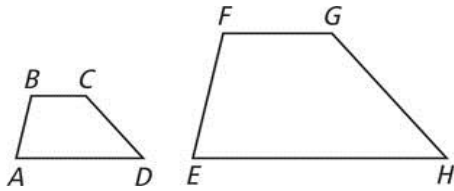
## Practice

Form K

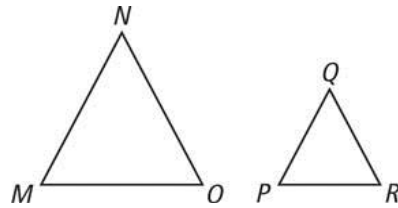
## Proportions and Similar Figures

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

1.  $ABCD \sim EFGH$

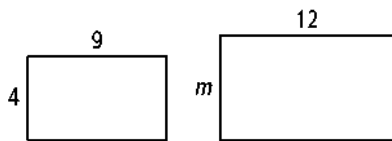


2.  $\triangle MNO \sim \triangle PQR$

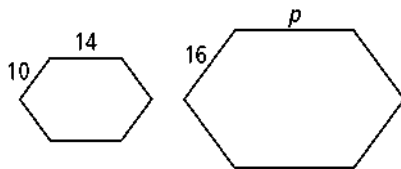


The figures in each pair are similar. Find the missing length.

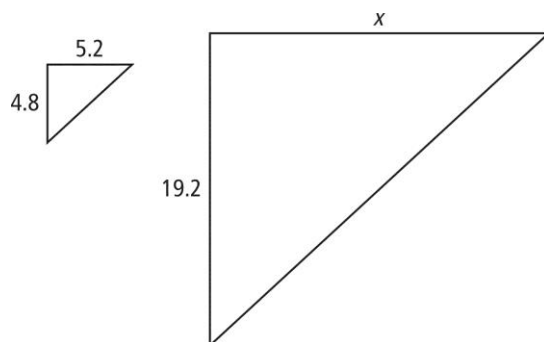
3.



4.



5.



[Type text]

**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.