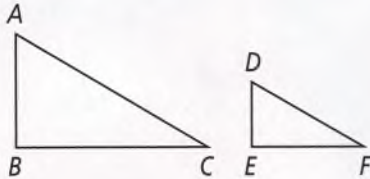
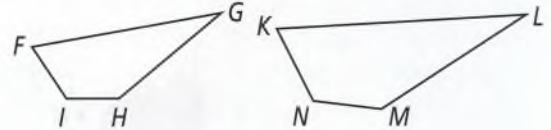


A Practice The figures in each pair are similar. Identify the corresponding sides and angles. **See Problem 1.**

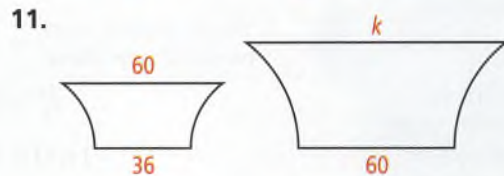
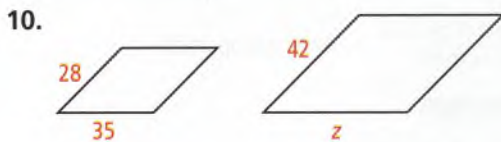
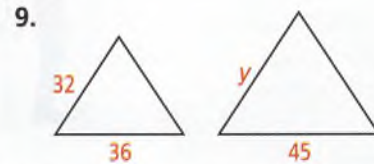
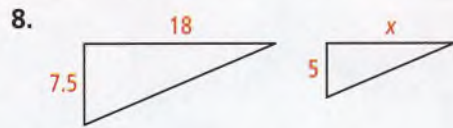
6. $\triangle ABC \sim \triangle DEF$



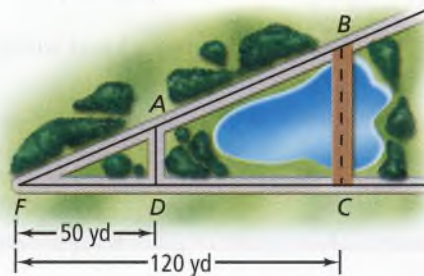
7. $FGHI \sim KLMN$



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



12. **Bridges** In the diagram of the park, $\triangle ADF \sim \triangle BCF$. The crosswalk at point A is about 20 yd long. A bridge across the pond will be built, from point B to point C. What will the length of the bridge be?



See Problem 2.

The scale of a map is 1 cm : 15 km. Find the actual distance corresponding to each map distance.

See Problem 3.

13. 2.5 cm

14. 0.2 cm

15. 15 cm

16. 4.6 cm

17. **Movies** A professional model-maker is building a giant scale model of a house fly to be used in a science fiction film. An actual fly is about 0.2 in. long with a wingspan of about 0.5 in. The model fly for the movie will be 27 ft long. What will its wingspan be?

See Problem 4.

18. **Maps** Abbottsville and Broken Branch are 175 mi apart. On a map, the distance between the two towns is 2.5 in. What is the scale of the map?