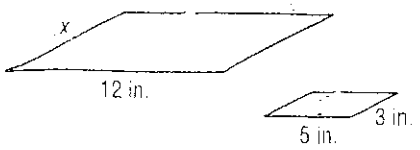
Lesson 5-5 Similar Figures

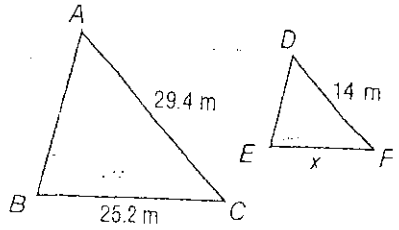
Name _____ Hr. _____

For each problem the shapes are similar. Set up a proportion to find the length of the missing side.

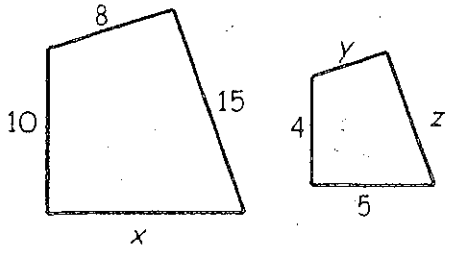
1.



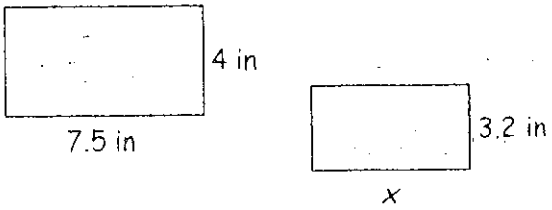
2.



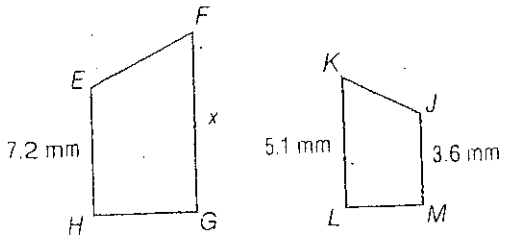
3.



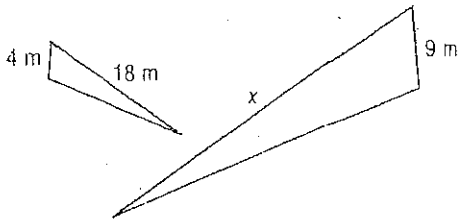
4.



5.



6.



Draw a picture and set up a proportion.

7. A woman is 5 ft. tall and her shadow is 4 ft. long. A nearby tree has a shadow 30 ft. long. How tall is the tree?

8. A burro is standing near a cactus. The burro is 59 in. tall. His shadow is 4 ft. long. The shadow of the cactus is 7 ft. long. Estimate the height of the cactus.

9. A 4 ft. tall person standing near a telephone pole has a shadow 3 ft. long. At the same time, the telephone pole has a shadow 18 ft. long. What is the height of the telephone pole?

10. A 6 ft. tall person standing near a flagpole casts a shadow 4.5 ft. long. The flagpole casts a shadow 4.5 ft. long. The flagpole casts a shadow 15 ft. long. What is the height of the flagpole?