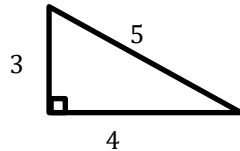
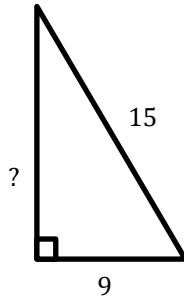


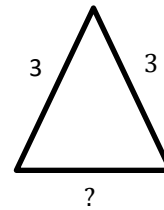
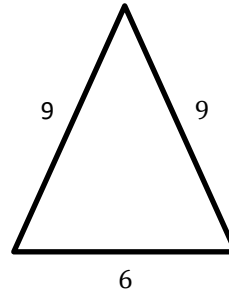
## Similarity and Ratios

 Each pair of figures is similar. Find the missing side.

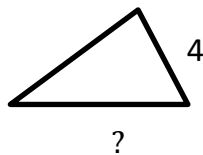
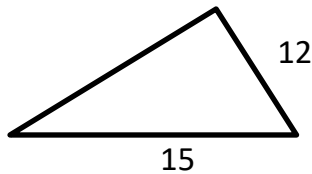
1)



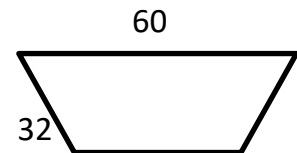
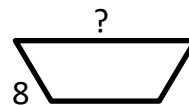
2)



3)



4)



 Solve.

5) Two rectangles are similar. The first is 6 feet wide and 20 feet long. The second is 15 feet wide. What is the length of the second rectangle? \_\_\_\_\_

6) Two rectangles are similar. One is 2.5 meters by 9 meters. The longer side of the second rectangle is 22.5 meters. What is the other side of the second rectangle?  
\_\_\_\_\_

7) A building casts a shadow 24 ft long. At the same time a girl 5 ft tall casts a shadow 2 ft long. How tall is the building? \_\_\_\_\_

8) The scale of a map of Texas is 2 inches: 45 miles. If you measure the distance from Dallas to Martin County as 14.4 inches, approximately how far is Martin County from Dallas?  
\_\_\_\_\_



## Answers

### *Similarity and ratios*

1) 12

2) 2

3) 5

4) 15

5) 50 feet

6) 6.25 meters

7) 60 feet

8) 324 miles