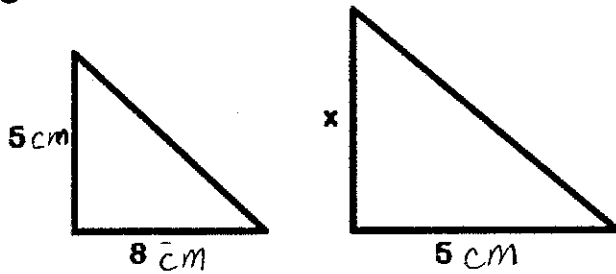


Name: \_\_\_\_\_

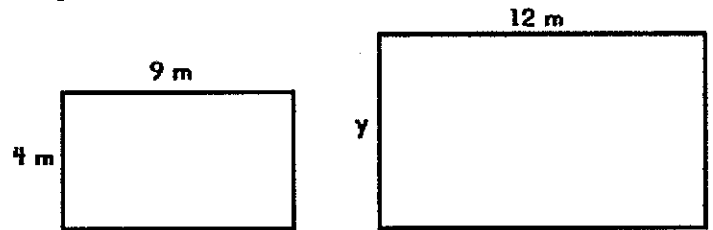
### Proportions and Similar Figures – Find Someone Who

- Directions:**
1. You ask the question.
  2. You record as your partner directs you.
  3. Your partner initials once they have given you the final answer.

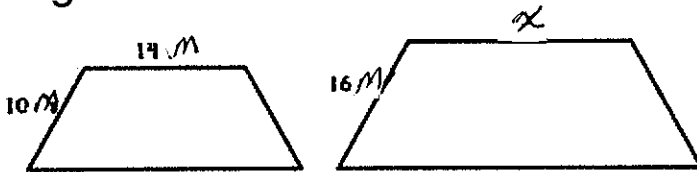
1) The figures are similar. Find the missing length.



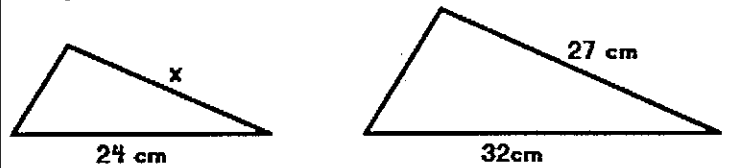
2) The figures are similar. Find the missing length.



3) The figures are similar. Find the missing length.



4) The figures are similar. Find the missing length.



5) The scale of a map is 1 cm : 100 m.  
Find the map distance if the actual distance is 750 m.

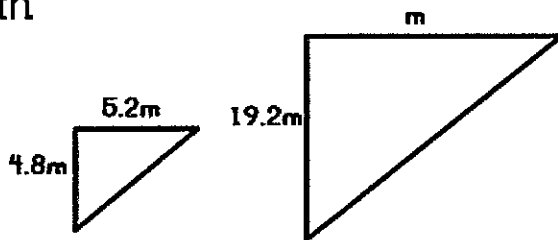
6) The scale of a map is 1 in : 17.5 mi.  
Find the actual distance if the map distance is 5 in.

7) A tree casts a shadow that is 10 feet long. A 5 foot woman standing nearby casts a shadow that is 4 feet long. How tall is the tree?

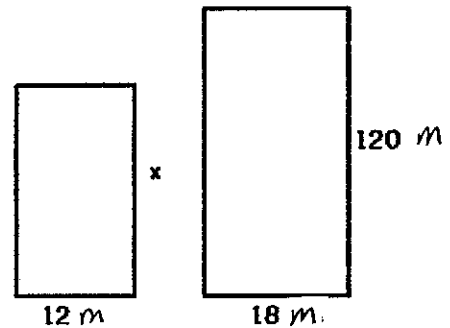
8) Two rectangles are similar. The first is 6 in. wide and 4 in. long. The second is 9 in. wide. Find the length of the second rectangle.

**SOLO.** Try these independently.

1) The figures are similar. Find the missing length.



2) The figures are similar. Find the missing length.



3) The scale of a map is  $0.25\text{ cm} : 15\text{ km}$ . Find the actual distance if the map distance is  $2\text{ cm}$ .

4) A scale model of a train is being made. The actual train is 5 meters tall, 27 meters long and 3 meters wide. If the scale model is 40.5 centimeters long, how wide is the scale model?

5) A tree casts a shadow 9 meters long. A 54 meter tall building nearby casts a shadow that is 24 meters long. What is the height of the tree?

6) Two isosceles triangles are similar. The first triangle has two sides that measure 6 in. and one side that is 5 in. The second triangle has two sides that measure 3 in. What is the length of the missing side on the second triangle?