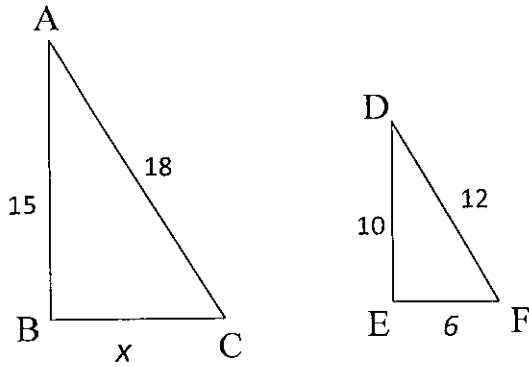# Similar Figures & Proportions   Name _____
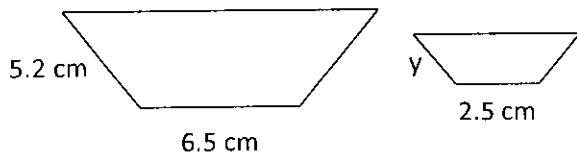
Directions: For each pair of similar figures, ***write a proportion*** containing the unknown length. ***Then solve***.

1. ΔABC ~ ΔDEF   Show your proportion and work:

A

18

15

10   12

B   x   C   E   6   F

D

2. The following trapezoids are similar. Show your proportion and work:
   Find the length of side y.

5.2 cm

6.5 cm

y

2.5 cm

3. The figures are similar. Solve for x.   Show your proportion and work:

E

12.5

F   x   G

L

13   12

J   5   K
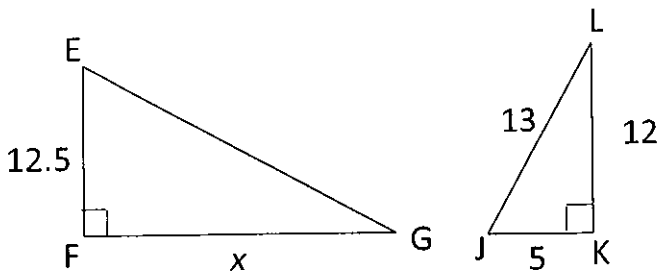
4. In problem number 3, what is the scale factor from the smaller figure to the larger one?

5. A Palm tree casts a shadow that is 28 feet long. A 6 foot sign casts a shadow 8 feet long.
   How tall is the palm tree? Label the diagram, set up a proportion, and solve.