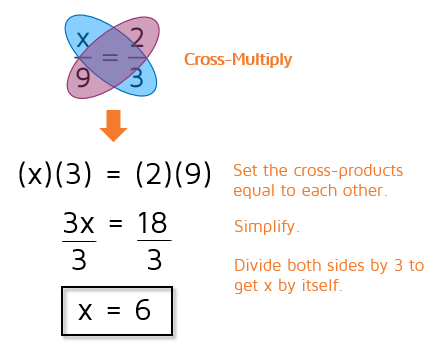
**HW #7**

**DUE Friday \_\_\_\_\_\_\_\_\_\_\_\_**

Solve the following proportions for the missing variable.

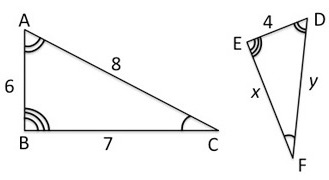
1. 2.

**EXAMPLE**

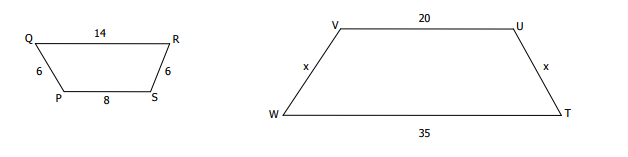


3. 4.

The following polygons are similar. Use a proportion to find the missing side lengths.

5.

x=\_\_\_\_\_\_\_\_\_\_\_\_\_ y=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



6.

x=\_\_\_\_\_\_\_\_\_\_

Convert the following values to the desired unit.

7. 32 yds. to m 8. 87 in. to cm

9. 3 miles to ft. 10. 10,280 mm to cm

11. 14 ft. to yards to meters to centimeters

Find the missing length in each of the nested triangles below.

|  |  |
| --- | --- |
| 12. | 13. |
| 14. | 15. |