Ready, Set, Go!

Ready

Topic: Pythagorean Theorem and ratios for similar triangles.
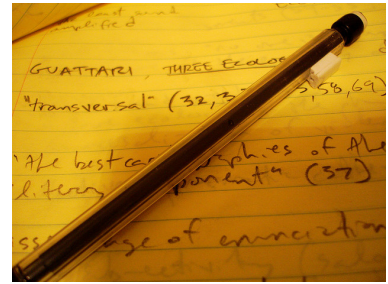
Find the missing side in each right triangle.

1.
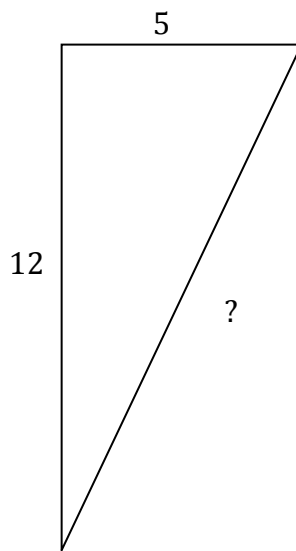
2.
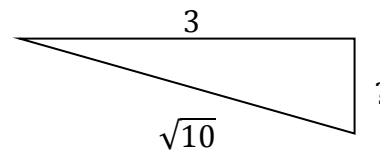
3.
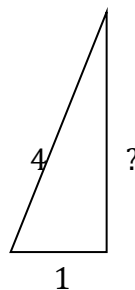
4.
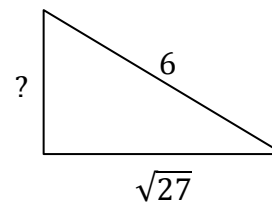
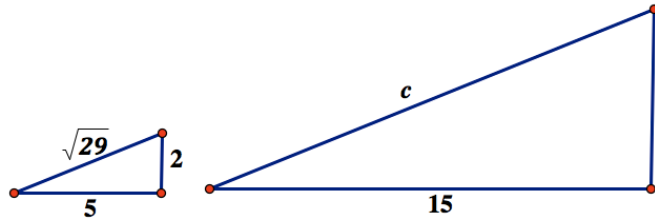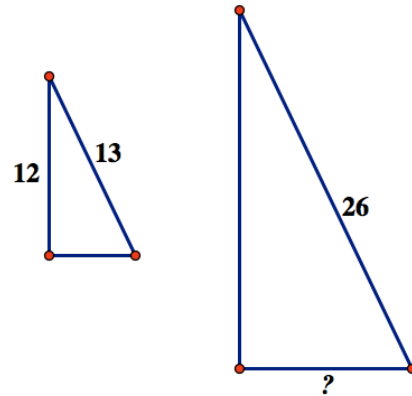Create a proportion for each set of similar triangles. Then solve the proportion.

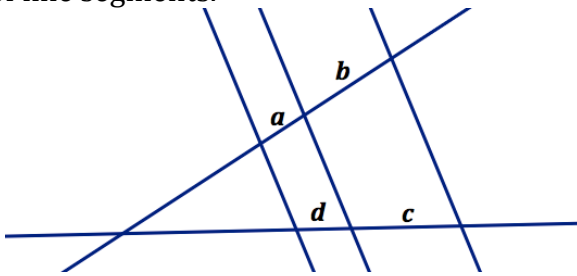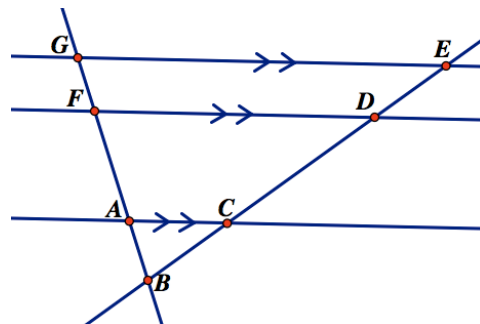5.   6.

Set

Topic: Proportionality of transversals across parallel lines.
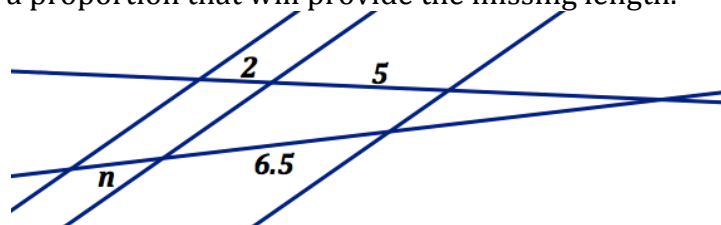
For each diagram write three equal ratios.

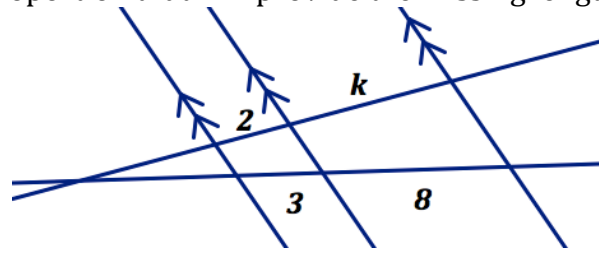7. The letters a, b, c and d represent lengths   8.
of line segments.

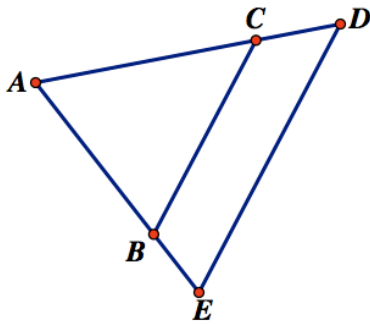9. Write and solve a proportion that will provide the missing length.

10. Write and solve a proportion that will provide the missing length.

k

2

3   *8*

In each diagram find and label the parallel lines. (i.e. $\overline{AB} \parallel \overline{CD}$) Then write a similarity statement for the triangles that are similar. (i.e. $\Delta\ ABC \sim \Delta\ XYZ$)
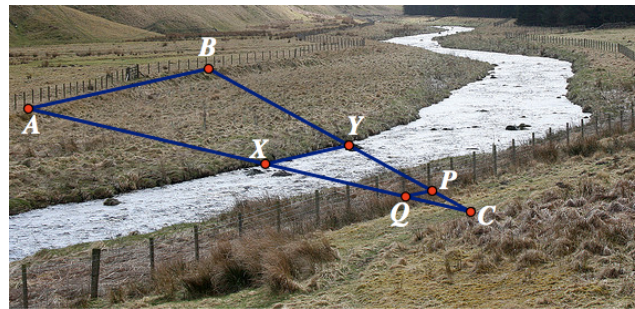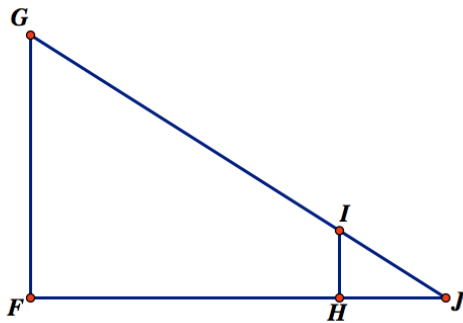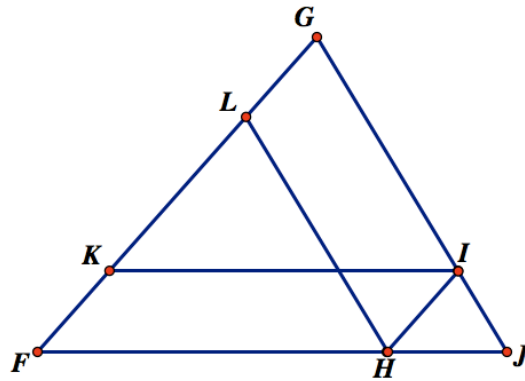
11.

12.

Photo of river
© 2013 http://www.flickr.com/photos/electropod/3391592745/
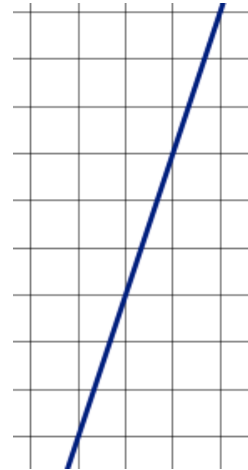
13.

14.

Go

Topic: Similarity of slope triangles.

Each line below has several triangles that can be used to determine the slope. Draw in three slope defining triangles of different sizes for each line and then create the ratio of rise to run for each.
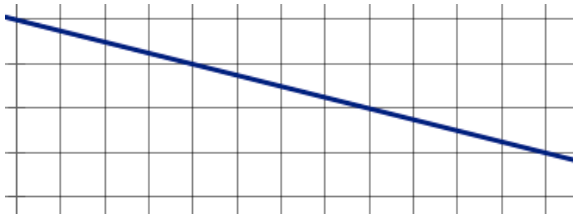
15.

16.

17.

18.