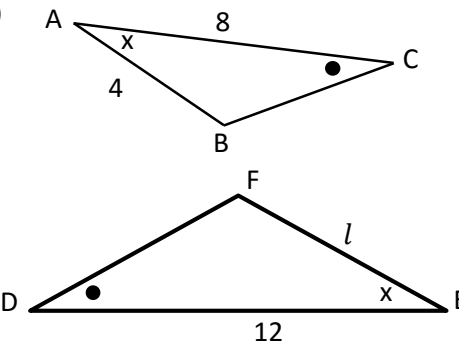
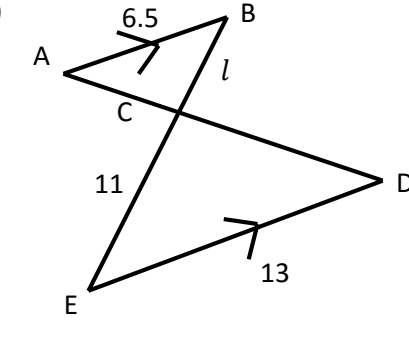
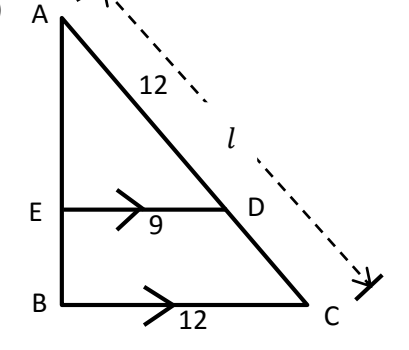
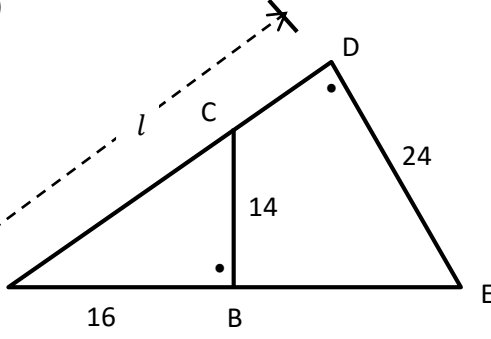


# Unit 6: Triangle Geometry Day 2

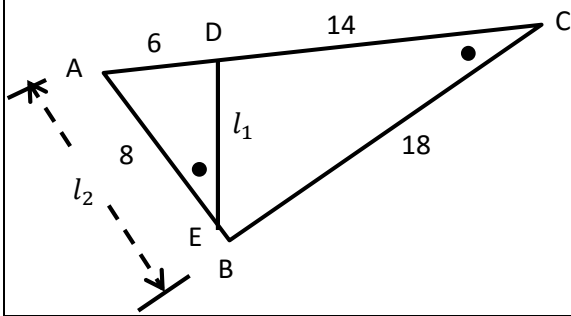
Math 9 Principles

**6-2 I can solve for missing lengths in similar triangles using proportion equations.**

For each problem, write the statement of similarity, the corresponding side ratios, and solve for each unknown using a proportion equation. Show all work.

<p>1)</p> 	<p><u>Similarity:</u></p> <p><u>Proportion Equation:</u></p> <p>(Solve for <math>l</math>)</p>
<p>2)</p> 	<p><u>Similarity:</u></p> <p><u>Proportion Equation:</u></p> <p>(Solve for <math>l</math>)</p>
<p>3)</p> 	<p><u>Similarity:</u></p> <p><u>Proportion Equation:</u></p> <p>(Solve for <math>l</math>)</p>
<p>4)</p> 	<p><u>Similarity:</u></p> <p><u>Proportion Equation:</u></p> <p>(Solve for <math>l</math>)</p>

5)

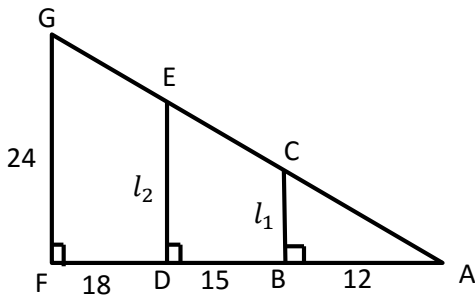


Similarity:

Proportion Eq'n for  $l_1$ :

Proportion Eq'n for  $l_2$ :

6)



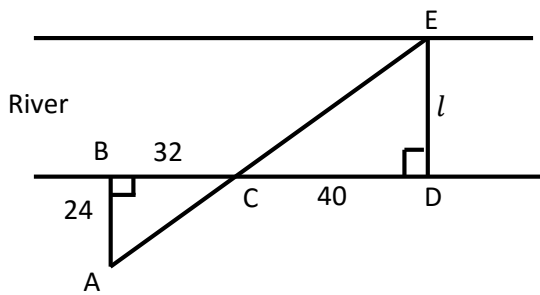
Similarity 1:  $\triangle ABC \sim$

Prop Eq'n  $l_1$ :

Similarity 2:  $\triangle ADE \sim$

Prop Eq'n  $l_2$ :

7)



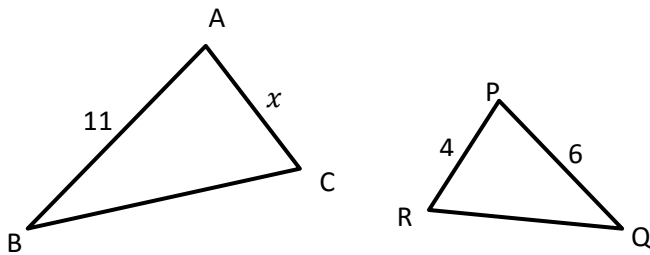
To find the width of the river

Similarity:

Prop Eq'n for  $l$ :

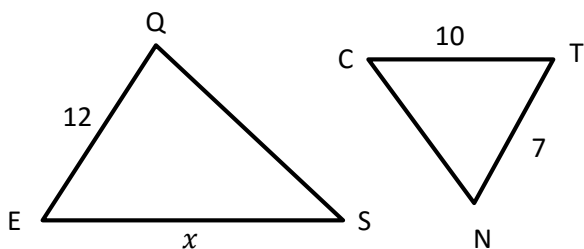
8)

$\triangle ABC$  is similar to  $\triangle PQR$ . Find  $x$ :



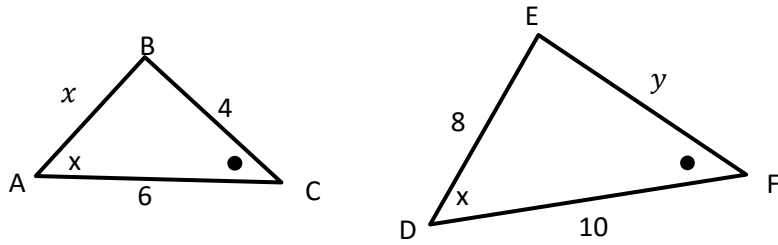
9)

$\triangle TNC$  is similar to  $\triangle EQS$ . Find  $x$ :

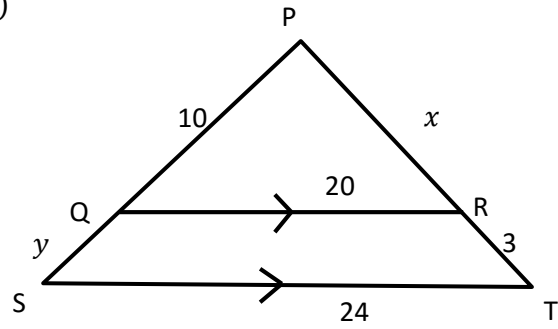


Find the value of  $x$  and  $y$  in each  $\Delta$ . State each similarity.

10)



11)



12)

