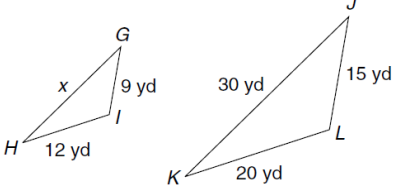
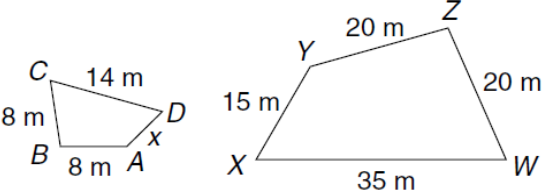


# Unknown Measurements of Similar Figures Notes

In order for two figures to be similar, they must have congruent corresponding angles and proportional corresponding sides.

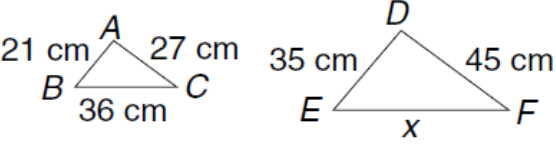
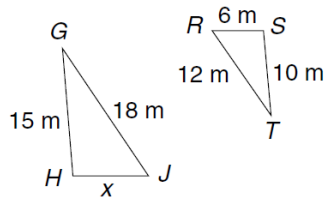
When you know two figures are similar, but you have a missing length of a side, you can use a \_\_\_\_\_ to solve.

<p>1)</p> 	<p>2)</p> 
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3) A 9-foot street sign casts a shadow that is 24 feet long. At the same time, a nearby tree casts a shadow that is 56 feet long. How tall is the tree?



**Pause the video and try the problems on the back on your own!  
Then press play and check your answers with a color pen.**

<p>1)</p> 	<p>2)</p> 
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3) A mailbox that is 4 feet tall casts a 12-foot long shadow. A street lamp is 10-feet tall. How long will the lamp's shadow be?