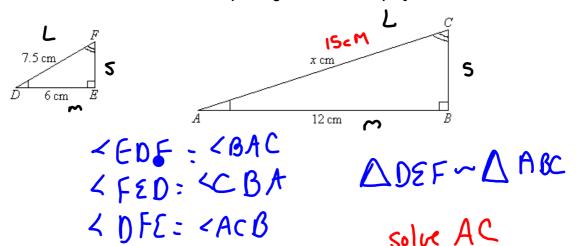
Warm-Up April 18, 2019

1. Are the triangles similar? How do you know?

[To prove triangles similar you look for 3 equal angles,named using 3 letter

the ratio of corresponding sides must be equal]



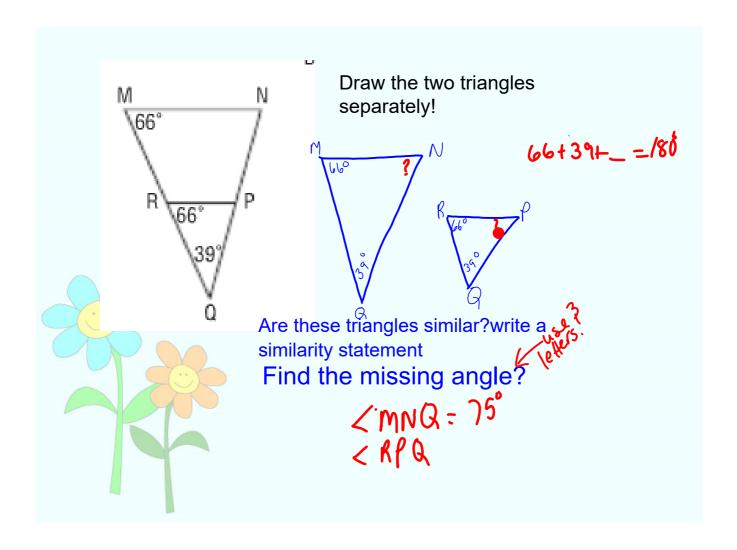
2. Solve for side AC [x]

de AC [x]

Set up (ahos) OF = FE = DE AC = FE AC = FE

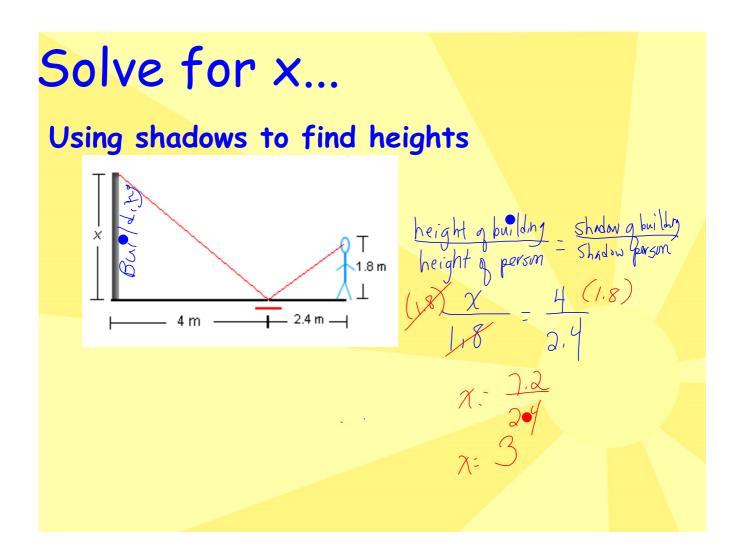
3. If △DFE is the original what is the scale factor?

Reduction or enlargement?

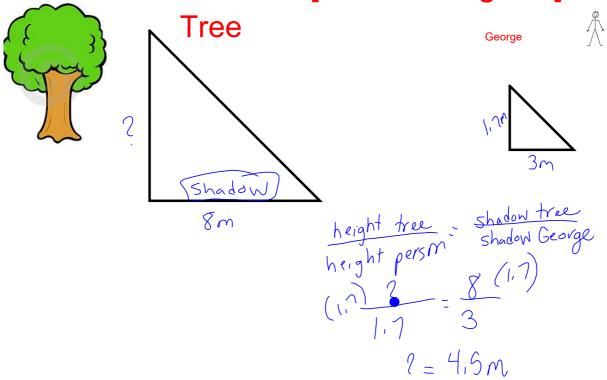




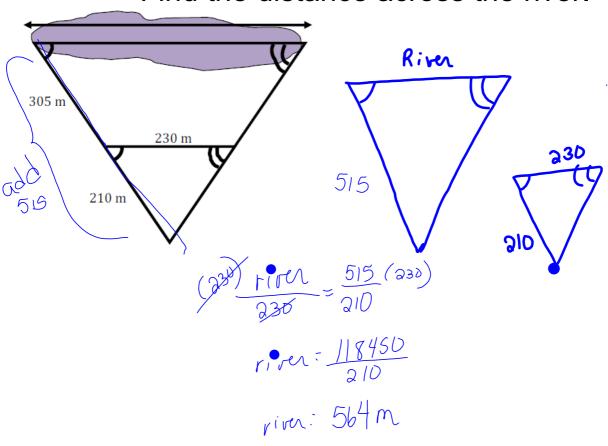
Using Similar Triangles to Solve Problems...



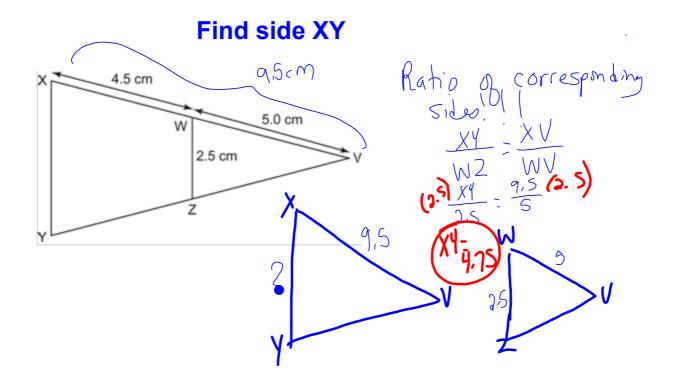
George is 1.7 m tall. His shadow is 3 m long. He is standing beside a tree that has a shadow that is 8 m long. How tall is the tree? [Draw a diagram]



Find the distance across the river.



Name the Similar Triangles.



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- 4. Name the triangles then list corresponding angles/sides...if not all corresponding then not similar. [make sure when naming keep short side, medium and long in the right order!!!]
- 5. Name the triangle...list corresponding angles...when naming keep long, medium and short sides in the right order!!!
- 6. Name the triangles then write the ratios then solve!!!
- 7. Sketch your diagram, write the ratios then solve!!!
- 9. Sketch two separate diagrams then solve.
- 10. Sketch then solve
- 11. Sketch two triangles separately then solve.
- 12. Sketch then solve.