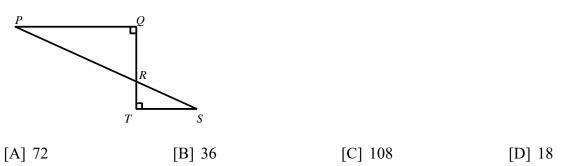
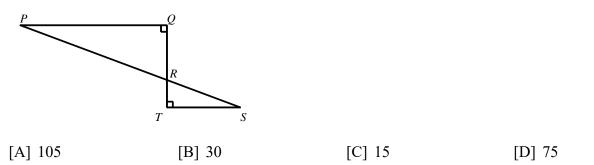
Geometry Practice G.SRT.B.5: Similarity 3 www.jmap.org

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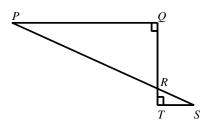
1. In the figure shown, PQ = 12 centimeters, ST = 6 centimeters and $m \angle QRP = 72$. Find $m \angle S$.



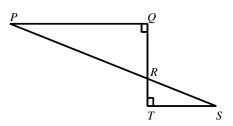
2. In the figure shown, PQ = 12 centimeters, ST = 6 centimeters and $m \angle QRP = 75$. Find $m \angle S$.



3. In the figure shown, PQ = 32 centimeters, ST = 8 centimeters and $m \angle QRP = 72$. Find $m \angle S$.



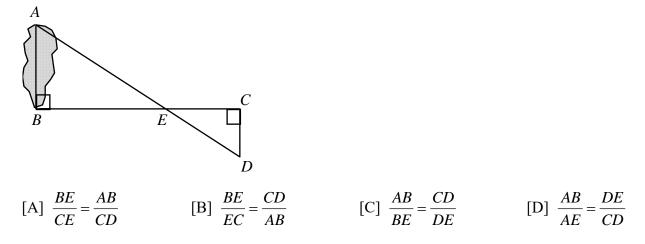
4. In the figure shown, PQ = 18 centimeters, ST = 9 centimeters and $m \angle QRP = 74$. Find $m \angle S$.



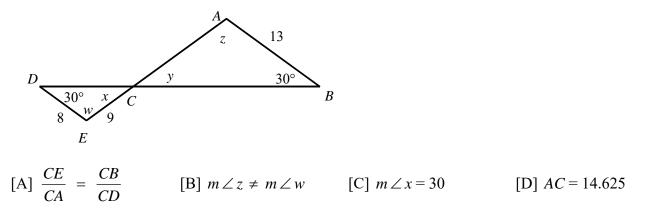
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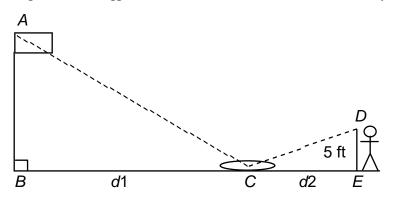
5. To find the distance across the lake in the figure below, which of the following proportions can you use?



6. Which statement is true for the triangles shown below?



7. Karen wanted to measure the height of her school's flag pole. She placed a mirror on the ground d1 feet from the flag pole, then walked backwards until she was able to see the top of the pole in the mirror. Her eyes were 5 ft above the ground and she was d2 ft from the mirror. Using similar triangles, find the height of the flagpole if d1 = 42 ft and d2 = 8 ft. Round your answer to the nearest hundredth.



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- [1] D
- [2] <u>C</u>____
- [3] 18
- [4] <u>16</u>
- [5] <u>A</u>
- [6] <u>D</u>
- [7] 26.25 ft