

7.1/7.2 Assignment

1. The length of a rectangle is 8 inches and its width is 5 inches. What is the ratio of length to width? Write your answer as either a decimal rounded to the nearest tenth or use colons.

2. The ratio of the sides of a triangle is 8:15:17. Its perimeter is 480 inches. Find the length of the shortest side.

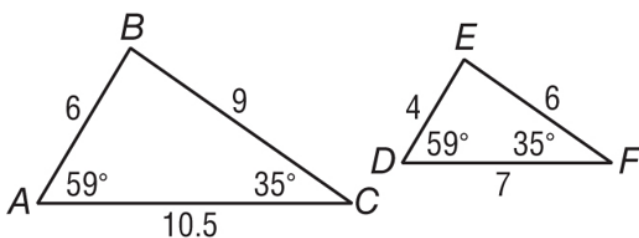
3. Solve the following proportion.

$$\frac{2x + 3}{8} = \frac{5}{4}$$

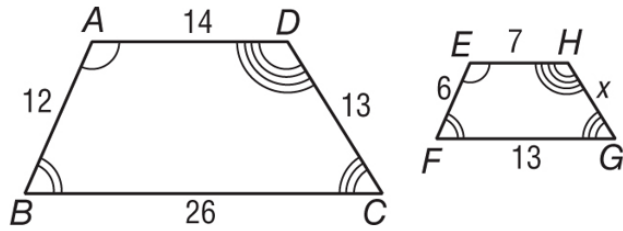
4. Solve the following proportion.

$$\frac{r + 1}{r - 1} = \frac{3}{4}$$

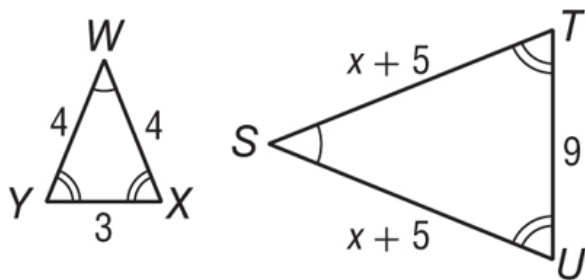
5. Determine if these two triangles are similar. IF THEY ARE SIMILAR, write the similarity statement and the scale factor. IF THEY ARE NOT, explain why.



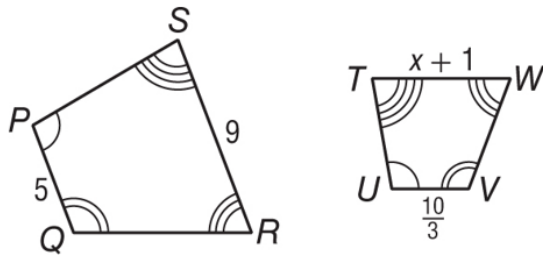
6. ABCD is similar to EFGH. Find the value of x.



7. WXY is similar to STU. Find the value of x.



8. PQRS is similar to UVWT. Find the length of TW.



9. LMN is similar to TSP. Find the value of x.

