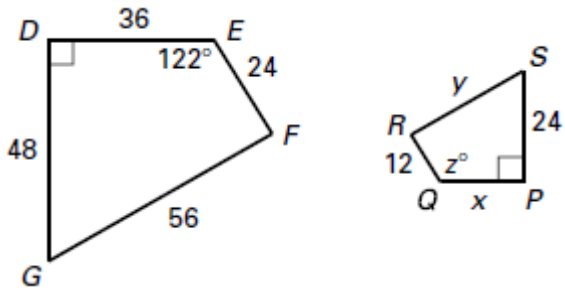


Geometry: Chapter 6.1-6.3 Quiz
Show all work and box all final answers.

Name _____

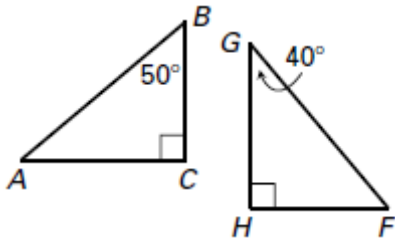
In the diagram, $DEFG \sim PQRS$.



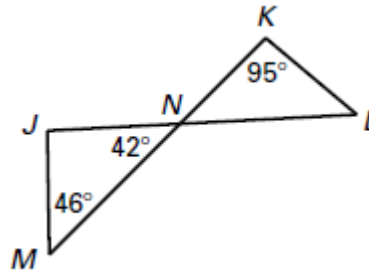
1. Find the scale factor of $DEFG$ to $PQRS$.
2. Find the value of x .
3. Find the value of z .

Determine whether the triangles are similar. If they are similar, write a similarity statement and explain why they are similar.

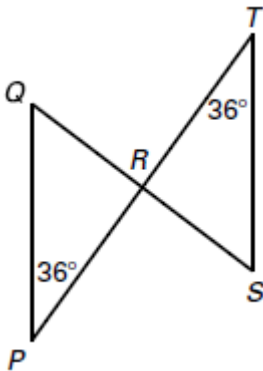
4.



5.

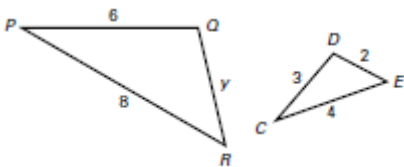


6.



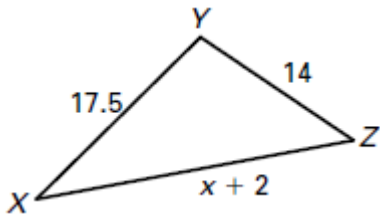
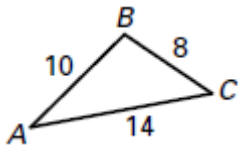
Given similar triangles, find the value of y .

7. $\triangle PQR \sim \triangle CDE$



Determine the value of x that makes $\triangle ABC \sim \triangle XYZ$.

8.



Find the perimeter of polygon B given that polygon A and polygon B are similar.

9. The ratio of corresponding sides of polygon A to polygon B is 3:4.
The perimeter of polygon A is 12 meters.

10. At an amusement park there are two Ferris Wheels. The taller one is 126 feet tall and casts a 45 foot shadow. The smaller one casts a 15 foot shadow. How tall is the smaller FerrisWheel?

11. Sami has two trophies next to each other sitting in the window of his room. Hiss football trophy is 7 inches tall and his basketball trophy is 13 inches tall. As the light shines in, the basketball trophy's shadow measures 26 inches. How long is the football trophy's shadow?

