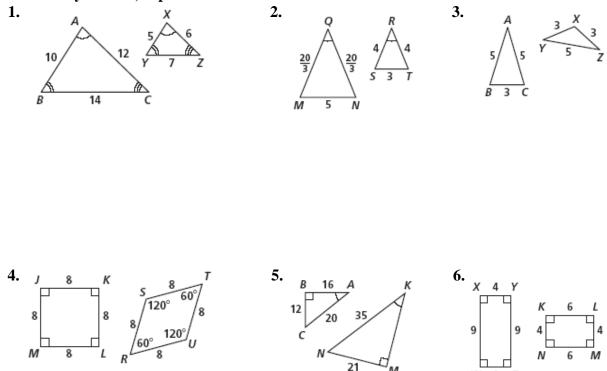
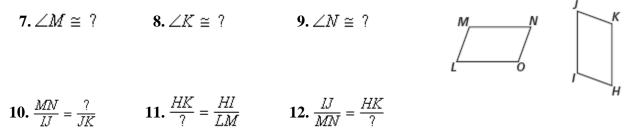
Name	Class	Date
	_ Class	

Practice 7-2 Similar Polygons

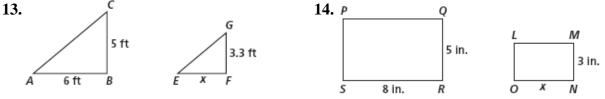
Are the polygons similar? If they are, write a similarity statement, and give the similarity ratio. If they are not, explain.

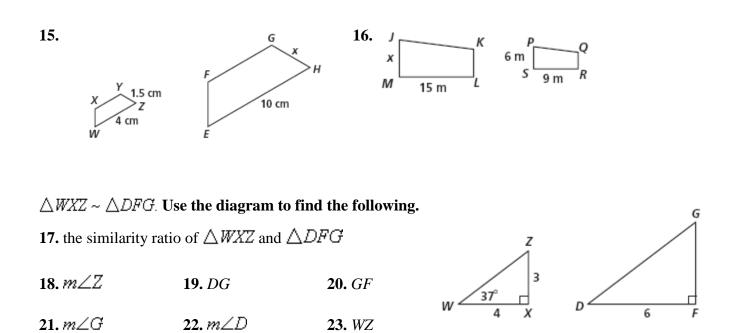


LMNO ~ *HIJK*. Complete the proportions and congruence statements.

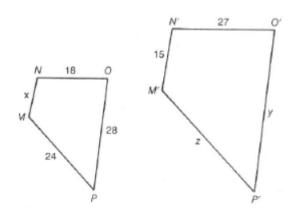


The polygons are similar. Find the values of the variables.





24. Quad. $MNOP \sim$ quad. M^NO^P . Find the scale factor of Quad. MNOP to quad. M^NO^P and the values of the variables.



Complete.

- **25.** $\triangle ABC \sim \triangle DEF$. Their scale factor is 7:9. If the perimeter of $\triangle ABC$ is 42, then the perimeter of $\triangle DEF$ is _____.
- 26. Quad. $PQRS \sim$ quad TUVW. One side of PQRS has length 12. The corresponding side of TUVW has length 15. The perimeter of TUVW is 35 and the perimeter of PQRS is
- **27.** The perimeters of two similar polygons are 20 and 28. One side of the smaller polygon has length 4. The length of the corresponding side of the larger polygon is