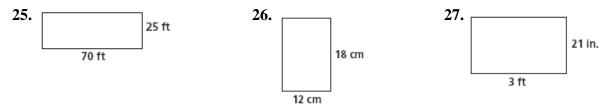
Name	Class	Date

Practice 7-1	Ratios and Proportions

1. The Washington Monument in Washington, D.C., is about 556 ft tall. A three-dimensional puzzle of the Washington Monument is 24 in. tall. What is the ratio of the height of the puzzle to the height of the real monument?

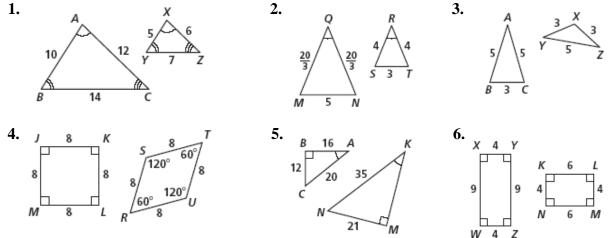
Algebra Solve each proportion for x. 16. $\frac{x}{4} = \frac{9}{3}$ 17. $\frac{6}{11} = \frac{x}{22}$ 18. $\frac{6}{x} = \frac{2}{11}$ 19. $\frac{7}{5} = \frac{x}{3}$ 20. $\frac{2}{x} = \frac{x}{32}$ 21. $\frac{3}{11} = \frac{8}{x}$ 22. $\frac{x}{x+2} = \frac{3}{4}$ 23. $\frac{x+1}{x} = \frac{7}{5}$ 24. $\frac{5}{x} = \frac{3}{x+1}$

For each rectangle, find the ratio of the longer side to the shorter side.

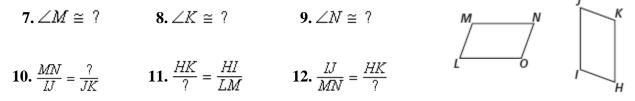


Practice 7-2 Similar Polygons

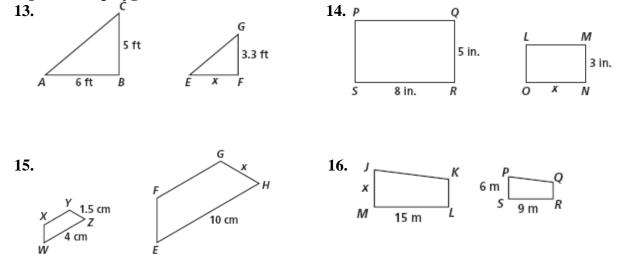
Are the polygons similar? If they are, write a similarity statement, and give the similarity ratio. If they are not, explain.



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



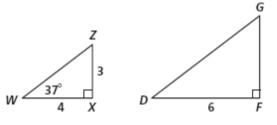
Algebra The polygons are similar. Find the values of the variables.



 $\triangle \textit{WXZ} \sim \triangle \textit{DFG}.$ Use the diagram to find the following.

17. the similarity ratio of $\triangle WXZ$ and $\triangle DFG$

18. $m \angle Z$ **19.** DG **20.** GF



21. $m \angle G$ **22.** $m \angle D$ **23.** WZ