Geometry

8.1 Use Similar Polygons

 Similar figures When two figures are the same Similar polygons (~) Polygons are similar iff corresponding 	but different are	, they are	 are
 Ratio of of corresponding Angles ≅,≅, 	is the scale ≃		ka kc
Ratios of side lengths () •==		D	F kb D
$\triangle ABC \sim \triangle JKL$			
Find the scale factor from $\triangle ABC$ to $\triangle JKL$. List all pairs of congruent angles.			$\begin{array}{c} B \\ 27 \\ A \\ 21 \\ C \end{array} \begin{array}{c} K \\ 36 \\ 36 \\ 28 \\ 28 \\ 28 \\ 28 \\ 28 \\ 28 \\ 28 \\ 2$
Write the ratios of the corresponding side lengths	in a statement of prop	oortionality.	
ABCD ~ QRST			
What is the scale factor of <i>QRST</i> to <i>ABCD</i> ?		A 12	В
Find x.		10 D 16	$\begin{array}{c} x \\ C \\ \end{array} \begin{array}{c} 0 \\ 5 \\ 4 \\ \end{array} \begin{array}{c} 6 \\ 4 \\ S \end{array} \begin{array}{c} R \\ 4 \\ S \end{array}$
Δ JKL ~ Δ EFG. Find the length of the median <i>KM</i> .			G = 40 H E

Geometry 8.1			Name:		
Perimeters of Similar Polygons					
If two polygons are similar, then the	of their	is equal to the ratios of their			
corresponding lengths.					
If $\triangle ABC \sim \triangle DEF$, then					
Areas of Similar Polygons					
If two polygons are similar, then the corresponding lengths.	_ of their	is equal to the	of the ratios of their		
If $\triangle ABC \sim \triangle DEF$, then	_				
ABCDE ~ FGHJK, the area of FGHJK is 318 in ² Find the scale factor of FGHJK to ABCDE			F 15 G		
Find the perimeter of ABCDE		A = 10 B B C C	18 K 15 J		
Find the area of <i>ABCDE</i>					

Assignment: 409 #2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 38, 40, 46, 49, 55, 56, 58, 60, 71 = 25 total