Unit 10: Similar Figures

Name:_____

Assignment 5: Scale Drawings and Area

Use what you know about perimeter, area and scale factor to fill in the tables.

Original Dimensions	Original Perimeter	Original Area	Scale Factor SF	New Dimensions Original dimensions X SF	New Perimeter Original perimeter X SF	Scale Factor^2	New Area Original Area X SF^2
5 x 4					144		
4 x 4					4		
3 x 11					196		

Original Dimensions	Original Perimeter	Original Area	Scale Factor SF	New Dimensions Original dimensions X SF	New Perimeter Original perimeter X SF	Scale Factor^2	New Area Original Area X SF^2
10 x 7			1.5				
12 x 9			1/3				
6 x 2			1/2				

Original Dimensions	Original Perimeter	Original Area	Scale Factor SF	New Dimensions Original dimensions X SF	New Perimeter Original perimeter X SF	Scale Factor^2	New Area Original Area X SF^2
___ x 1			3		48		
___ x 9			5		130		
6.5 x _____			3		51		

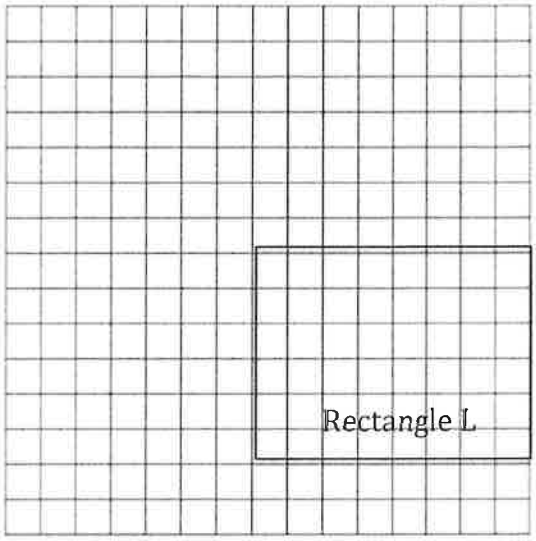
Original Dimensions	Original Perimeter	Original Area	Scale Factor SF	New Dimensions Original dimensions X SF	New Perimeter Original perimeter X SF	Scale Factor^2	New Area Original Area X SF^2
			5				25
			6				72
			4				320

Pre-Algebra
Unit 10: Similar Figures
Lesson 10.5: Scales Drawings with Area

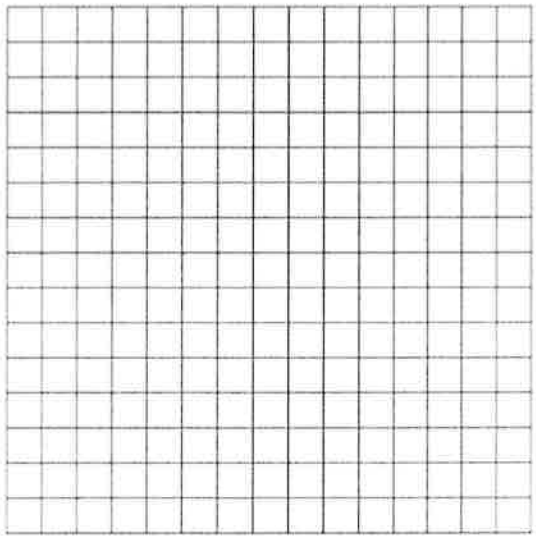
Name:_____

Hour:_____

1. Rectangle K has an area of 12 square units. Paul drew a scaled version of Rectangle k and labeled it Rectangle L. What scale factor did Paul use to go from Rectangle K to Rectangle L?



2. A rectangle is 3 units by 2 units. It is scaled by a factor of 4. What is the area of the new rectangle?



3. Polygon M is a scaled copy of Polygon L using a factor of 5. Polygon L is what fraction of Polygon M's area?