Name:	_ Period: A B C D E F Date:		
Assessment Review: Mo	dule 1 Topic 2 – Similarity		
Assessment Review: Mod 1 Triangle <i>DEF</i> has vertices <i>D</i> (-4, 1), <i>E</i> (2, 3), and <i>F</i> (2, 1) and is dilated by a factor of 3 using the origin as the point of dilation. The dilated triangle is named Δ <i>D'E'F'</i> . What are the coordinates of the vertices of the resulting triangle? Write the rule for this dilation below. D' (,) E' (,) F' (,)	dule 1 Topic 2 – Similarity ² Trapezoid ABCD is dilated to form trapezoid A'B'C'D'. Without calculating the scale factor, explain if the dilation is an enlargement or reduction and how you know this.		
Rule: (X, Y)> 3 Describe a sequence of transformations that exhibits the similarity between the pair of forwards shown. Bemember to be grading.	Circle one: Enlargement Reduction I know this because		
figures shown. Remember to be specific.	Circle one below: a. $\Delta A'B'C'$ is an enlargement of ΔABC . b. $\Delta A'B'C'$ is a reduction of ΔABC . c. $\Delta A'B'C' \cong \Delta ABC$ d. $\Delta A'B'C'$ is a mirror image of ΔABC . Write the rule for the dilation described above: Rule: (X, Y)>		
2)			

5	 Which must be <i>true</i> of a scale factor of a dilation if the image is smaller than the original figure? a. The scale factor is negative. b. The scale factor is between -1 and 0. c. The scale factor is between 0 and 1. d. The scale factor is positive. 	Triangle <i>FUN</i> , with vertices $F(-6, 9)$, $U(0, -6)$, and $N(-3, -12)$ was dilated to form triangle <i>PET</i> with vertices $P(-4, 6)$, $E(0, -4)$, and $T(-2, -8)$. What is the scale factor for this dilation?Scale factor:This dilation is $a(n)$:Circle one:EnlargementReduction							
7	Triangle ABC has vertices with coordinates A(-2, -2), B(-6, -2), and C(-6, 2). a. Dilate \triangle ABC on the coordinate plane using the origin as the center of dilation and a factor of $\frac{1}{2}$ to form \triangle A'B'C'.								
	b. What a	re the coordinates of A', B', and C'?							
	12 10 c. How d of the dil 10 6	B' C' d you determine the coordinates of the verti- ited image? ilation an enlargement or a reduction? Explo- oning.	ain						
8	Determine whether the statements are some	<u>mes, always,</u> or <u>never true</u> .							
	a. The angles of dilated figures are congruent	to the original figure.	_						
	b. The shape of dilated figures are the same.								
	c. The size of dilated figures are the same.								
	d. Dilations can be enlargements of the origin e. Dilations can be reductions of the original f								
		gure							

9	A shape is dilated with the center of dilation as the origin. Point M is on the shape and M' is the corresponding point on the image of the dilation. Point M is at (-3, 5) and M' is (-6, 10). What is the scale factor and how do you know?						
	M (-3, 5)> M' (-6, 10)						
	Scale factor:						
	This dilation is a(n):						
	Circle one: Enlargement Reduction						
10	Parallelogram ABCD is transformed to create parallelogram A'B'C'D'. Which of the following shows the sequence of transformations needed to create A'B'C'D'.						
	A. Dilation by a factor of $\frac{3}{2}$ about the origin and a translation of 3 units right.						
	B. Dilation by a factor of $\frac{2}{3}$ about the origin and a translation 3 units right.						
	C. Dilation by a factor of $\frac{3}{2}$ about the origin and a translation 3 units left.						
	D. Dilation by a factor of $\frac{2}{3}$ about the origin and a translation 3 units left.						

11	Dhate Thangle Abc on the coordinate plane using point the origin as the center of unation					
	and a scale factor of 3. Draw and la	Del.	20			
	A (2, 1)> A'		18 -			
	B (2, 6)> B'		16			
	C (4, 1)> C'		12			
	This dilation is a(n): Circle one : Enlargement Reduction Rule : (X, Y)>		8			
			6 B (2,6)			
			2			
				10 12 14	16 18 20 ×	
12	Determine the scale factor of each of	lilation.				
	a) A (7, -3)> A' (35, -15)	Scale factor: _				
	b) M (-14, -8)> M' (-7, -4)	Scale factor: _				
	c) Z (-12, 4)> Z' (-18, 6)	Scale factor: _				
	d) Q (0, 12)> Q' (0, 6)	Scale factor: _				
	e) R (-7, 5)> R' (-21, 15)	Scale factor: _				
	f) P (-24, -16)> P' (-6, -4)	Scale factor: _				