

Na	m e			Date		
Ch	eck f	or Unde	rstanding			
Re	preser	ıt Similari	ty with Proportions: Investigat	ion 2		
1.	Deterr	nine wheth	ner each statement is true or false.	Circle true	01	r false.
	Α.	Congruen	t figures have the same shape, but	t not neces	saı	rily the same size.
		True	False			
	В.	Congruen	t figures have a scale factor of 1.			
		True	False			
	C.	-	otion transformations and a dilation e-image to an image, then the figu	-		
		True	False			
2.		dilation, oriate scale	$\overline{Q'R'}$ is the image of $\overline{QR}$ . Match each factor.	ch set of se	gn	nent lengths with the
	A.	<i>QR</i> = 18 t	units, <i>Q'R'</i> = 6 units	1.		2.5
	В.	<i>QR</i> = 6 uı	nits, <i>Q'R'</i> = 24 units	11		$3\frac{2}{3}$
	C.	QR = 4 ui	nits, $Q'R'=10$ units	11	١.	1/3
	D.	<i>QR</i> = 3 ur	nits, $Q'R' = 11$ units	11	٧.	4
3.	An equ		angle with sides of 8 centimeters is			<u> </u>

3. An equilateral triangle with sides of 8 centimeters is dilated in reference to the origin in order to form an equilateral triangle that has sides 4 centimeters in length. If (a, b) is a point on the original triangle, which are the coordinates of the corresponding point on the triangle that has been dilated?

$$\mathbf{A.} \ \left(-\frac{1}{2}a, -\frac{1}{2}b\right)$$

$$\mathbf{B.} \quad \left(\frac{1}{2}a, \frac{1}{2}b\right)$$

**C.** 
$$(2a, 2b)$$

**D.** 
$$(-2a, -2b)$$

4. Describe the relationship between two figures that are similar.