

Name: _____

DILATIONS Worksheet

1) Tell whether the following scale factors would create a **SHRINK** or a **STRETCH**.

a. 6

b. 3

c. $\frac{1}{2}$

d. 1.5

e. $\frac{1}{4}$

f. $\frac{2}{3}$

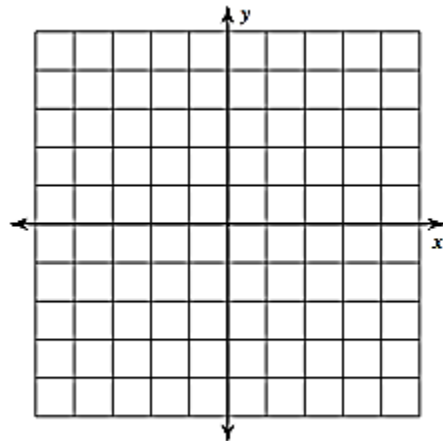
g. 2.7

h. $\frac{4}{5}$

i. $\frac{5}{4}$

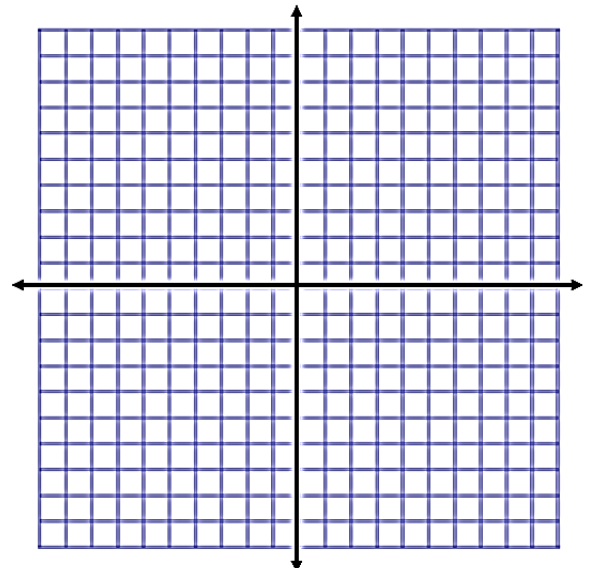
2) Dilate the triangle with the following vertices by a scale factor of 2.

Original Triangle's Coordinates	Dilated Triangle's Coordinates
(x, y)	(2x, 2y)
(1, 2)	
(-1, -1)	
(2, -2)	



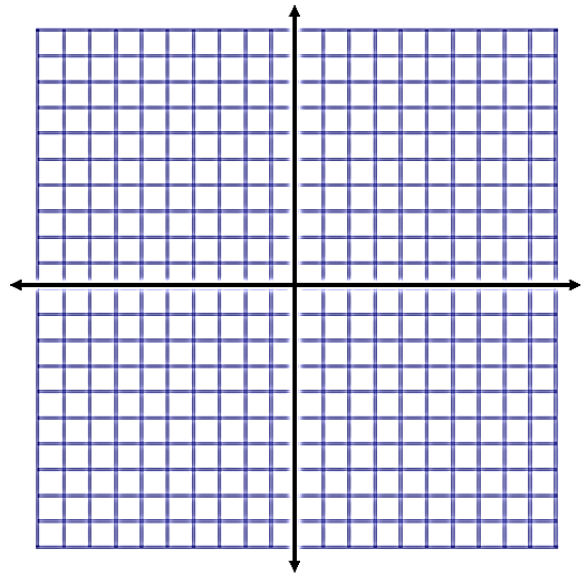
3) Dilate the triangle with the following vertices by a scale factor of $\frac{1}{2}$.

Original Triangle's Coordinates	Dilated Triangle's Coordinates
(x, y)	($\frac{1}{2}x$, $\frac{1}{2}y$)
(8, -2)	
(-4, 0)	
(6, 10)	



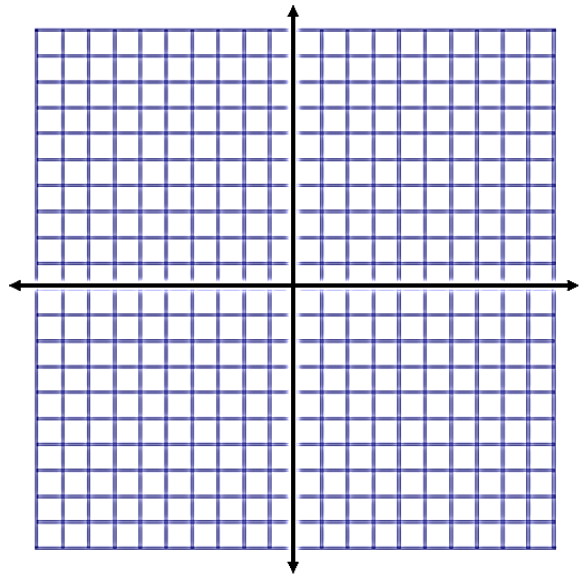
4) Dilate the triangle with the following vertices by a scale factor of 3.

Original Triangle's Coordinates	Dilated Triangle's Coordinates
(x, y)	(3x, 3y)
(1, 2)	
(-3, 2)	
(4, -1)	



5) Dilate the triangle with the following vertices by a scale factor of 1/3.

Original Triangle's Coordinates	Dilated Triangle's Coordinates
(x, y)	(1/3x, 1/3y)
(9, -3)	
(-6, -9)	
(-3, 3)	



6) Dilate the triangle with the following vertices by a scale factor of 4.

Original Triangle's Coordinates	Dilated Triangle's Coordinates
(x, y)	(4x, 4y)
(1, -1)	
(2, -2)	
(1, 2)	

