Name:_

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Module 1: Topic 2 Lesson 3 Assignment—From Here to There

VOCABULARYFor questions 1-2, complete the following sentences with the correct term. Use your book to help you.			
1. When you dilate a figure, you create a <u>Similar</u> figure. When two figures are similar,			
the ratios of their <u>corresponding</u> side lengths are equal. (page M1-117)			
2. Figures are <u>Cohorce</u> if they have their corresponding side lengths and			
corresponding angles are the same measure.			
PRACTICEFor questions 1-2, Verify that the two figures are similar by describing a dilation that maps one figure onto the other. Be to include the scale factor, and write corresponding sides used to determine scale factor.			
1. $\triangle ABC$ is mapped onto $\triangle DEF$		2.	
		HEXAGON ABCDEF is mapped onto HEXAGON GHIJKL	
A (2,3) x 2 4 6 8 10 12 14 16 18 20		$ \begin{array}{c} 0 \\ -2 \\ -2 \\ -2 \\ -4 \\ -4 \\ -4 \\ -4 \\ -4$	
This is a/an:		This is a/an:	
Enlargement or Reduction		Enlargement or Reduction	
I know this because: The new figure is			
bigger than the original		I know this because: The new figure is	
		smaller than the original.	
Scale Factor:2			
		Scale Factor: <u>12.4</u>	
3 How do can you tell that these	1. Use the cor	rdinates of the pre-	5. Use the coordinates of the
two figures are not similar figures?	image to determine how the		pre-image to determine how
two ngales are not similar ngales.	triangle was dilated		the triangle was dilated
$ \ \ \ \ \ \ \ \ \ \ \ \ \ $			
	Fre-Image	e image	Pre-image image
	X (7,2)	X' (35, 10)	A (15, 3) A' (5, 1)
B C 2	Y (3,-5)	Y' (15, -25)	B (-21.0) → B' (-7.0)
× + + + + F + 1€ 1 -10 -8 -6 -4 -2 0			
The two figures have	Z (-0, U)	<5 (-30, 0)	C(-6, 18) $C(-2, 6)$
clifferent points for the center of dilation.	Scale Factor:5		Scale Factor: 3

