

## Extending Dilations **KEY**

### Dilations with the Center of Dilation not at the Origin

- On a sheet of grid paper, plot triangle ABC with a colored pencil with the following vertices. A(2, 6), B(8, 7) and C(4, 4).
- Plot point P(8, 2). This will be the center of dilation.
- Using point P, construct lines of extension through each of the three vertices.
- Dilate the figure by a scale factor of 2 using a different color pencil. Use the table below to record your findings.

Original Figure		Image Dilated by Scale Factor of 2 with Center Of Dilation at P(8, 2).	
Point	Coordinates	Point	Coordinates
A	(2, 6)	A'	(-4, 10)
B	(8, 7)	B'	(8, 12)
C	(4, 4)	C'	(0, 6)

- In the previous activity, you discovered that if some point  $(x, y)$  was dilated by a scale factor of some real number  $r$  with the origin as the center of dilation, then the resulting image point had coordinates  $(r \cdot x, r \cdot y)$ . In other words, as long as the origin was the center of dilation, image points could be found by multiplying the original coordinates by the scale factor of dilation. Does that work for the data in the table above? Explain.  
**No, because the image of (2, 6) is not (4, 12) and the image of (8, 7) is not (16, 14) and etc.**
- Suppose you multiplied each of the original coordinates by a scale factor of 2. Complete the table below and respond to the questions that follow.

Original Figure		Coordinates of Original Figure Doubled ( $2 \cdot x, 2 \cdot y$ )	Actual coordinates of image Dilated by Scale Factor of 2 with Center Of Dilation at P(8, 2)
Point	Coordinates		
A	(2, 6)	(4, 12)	(-4, 10)
B	(8, 7)	(16, 14)	(8, 12)
C	(4, 4)	(8, 8)	(0, 6)

- Notice that multiplying the coordinates of A(2, 6) by 2 gives (4, 12). How different is the  $x$  coordinate from the actual coordinate? What about the  $x$  coordinates for the other points? How different are they from the actual coordinates?  
**All  $x$ -coordinates from the image have a difference of 8 from the original.**
- Notice that multiplying the coordinates of A(2, 6) by 2 gives (4, 12). How different is the  $y$  coordinate from the actual coordinate? What about the  $y$  coordinates for the other points? How different are they from the actual coordinates?  
**All  $y$ -coordinates from the image have a difference of 2 from the original.**

# Extending Dilations Answer Key

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