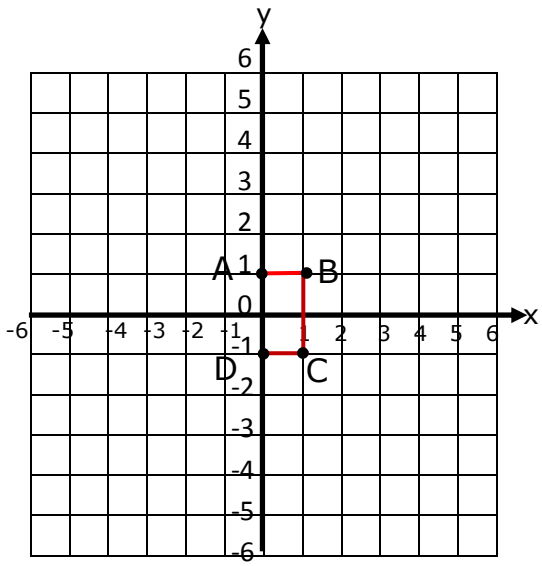
Name _____ Date _____

Dilations and Scale Factors - Step-by-Step Lesson

Graph the image of rectangle ABCD after dilation with a scale factor of 4, centered at the origin.



Explanation:

This dilation is centered at the origin, so you can find the image by multiplying the x- and y-coordinates by the scale factor.

Multiply the coordinates of point D(0, -1) by 4.

The image is D’(0, -4).

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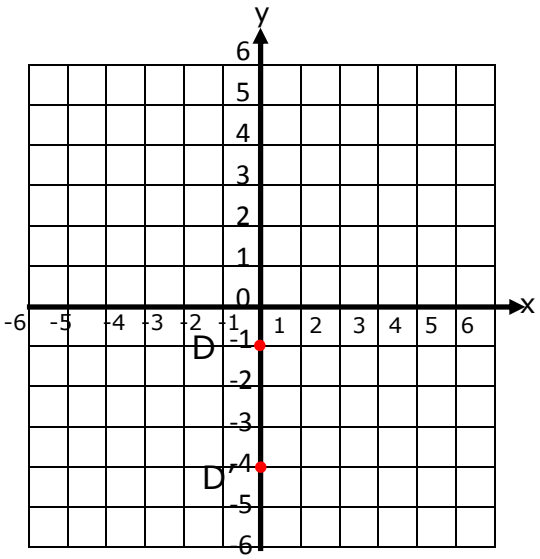
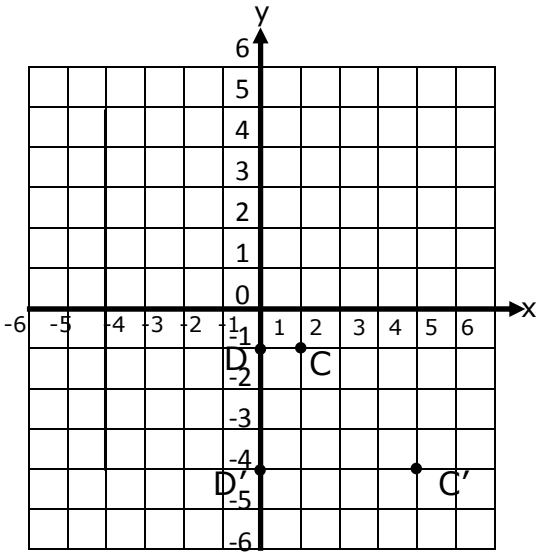


Now multiply the coordinates of point *C* (1, -1) by 4. The image is *C'*(4, -4).



Now multiply the coordinates of points A(0, 1) and B(1, 1) by 4. The images are A'(0, 4) and B'(4, 4).

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The dilated points form a rectangle similar to ABCD.