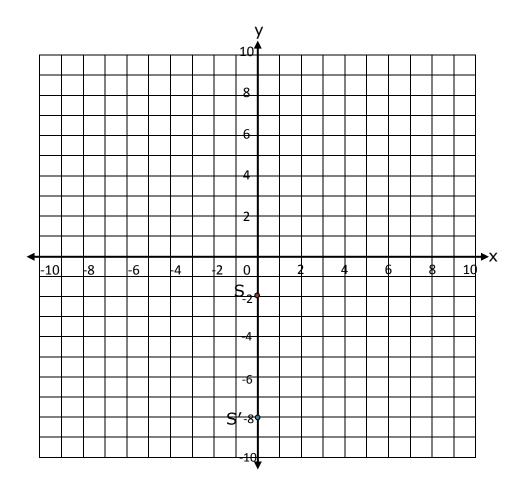
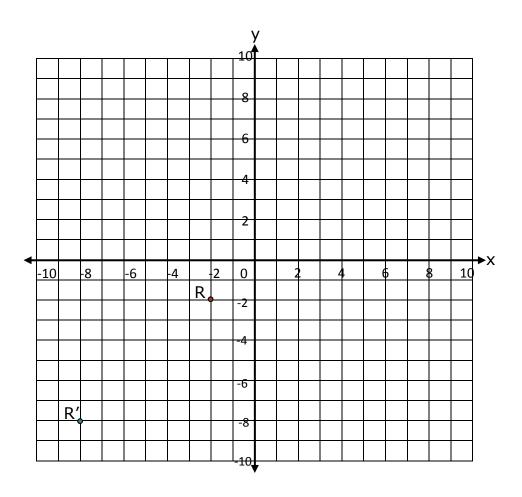
Dilations and Scale Factors - Guided Lesson Explanation

Explanation#1

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 R(0, -2) by 4. The image is R'(0, -8).



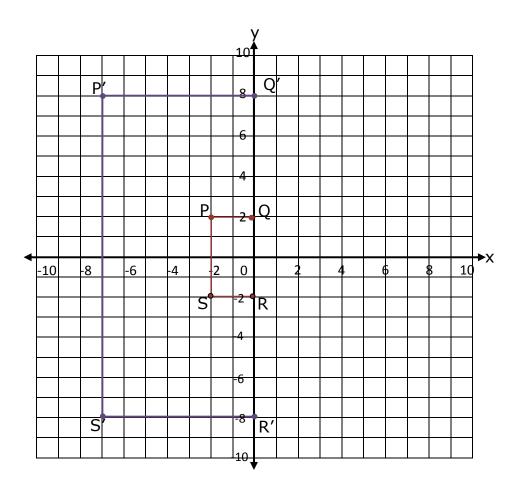
Now multiply the coordinates of point S(-2, -2) by 4. The image is S'(-8, -8).



Now multiply the coordinates of points P(-2, 2) and Q(0, 2) by 4.

The images are P'(-8, 8) and Q'(0, 8).

The dilated points form a rectangle similar to PQRS.

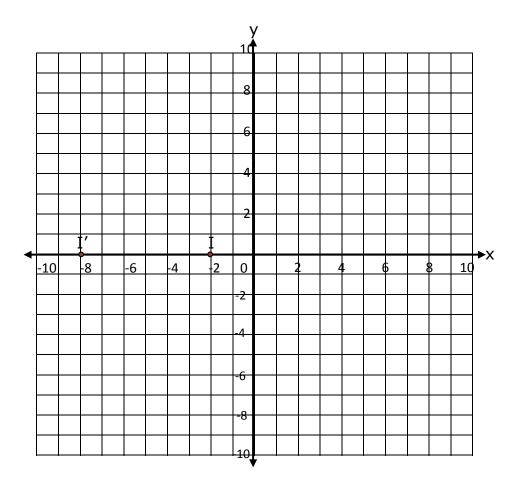


Explanation#2

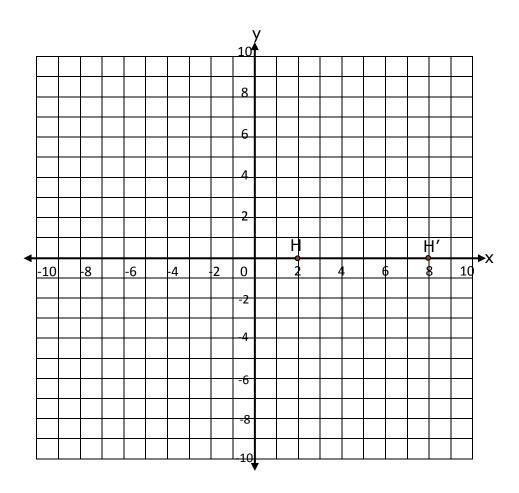
This dilation is centered at the origin, so you can find the image by multiplying the x- and y-coordinates by the scale factor.

Multiply the coordinates of point I (-2, 0) by 4.

The image is I'(-8,0).



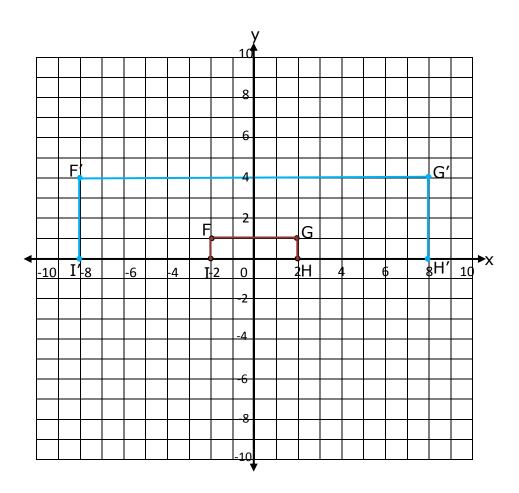
Now multiply the coordinates of point H (2, 0) by 4. The image is H'(8,0).



Now multiply the coordinates of points F(-2,1) and G(2,1) by 4.

The images are F'(-8, 4) and G'(8, 4).

The dilated points form a rectangle similar to FGHI.



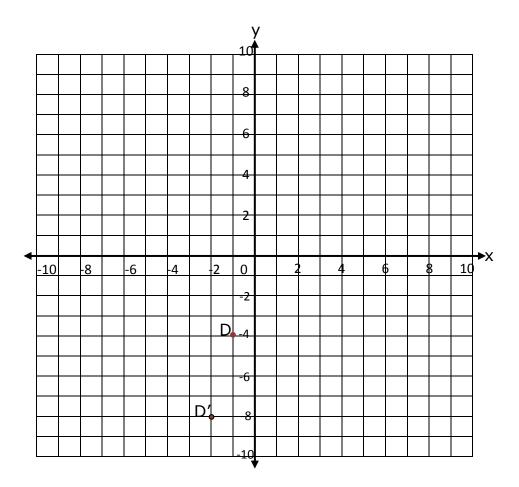
Explanation #3

Step 1) First we have to see what we have find out.

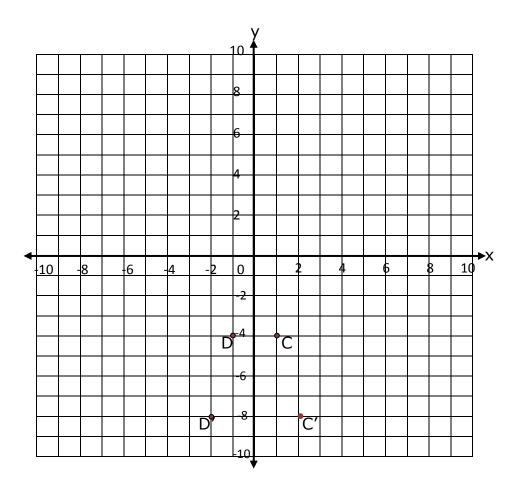
Step 2) This dilation is centered at the origin, so you can find the image by multiplying the x- and y-coordinates by the scale factor.

Multiply the coordinates of point D(-1,-4) by 2.

The image is D'(-2,-8).



Now multiply the coordinates of point C(1,-4) by 2. The image is C'(2,-8).



Now multiply the coordinates of points A(-1, -1) and B(1, -1) by 2.

The images are A'(-2, -2) and B'(2, -2).

The dilated points form a rectangle similar to ABCD.

| Name Date |
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