

- 1) Write the coordinate rule, when the center of dilation is  $(\frac{6}{7}, 9)$  and the scale factor is  $\frac{7}{3}$ .

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- 2) LMN is dilated to L'M'N' with a scale factor of  $\frac{3}{4}$  and the center of dilation is  $(-3, 0)$ . The coordinates of the original image are given by L $(-7, -8)$ , M $(-3, -4)$  and N $(-11, 12)$ . Find the dilated coordinates.

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- 3) The dilated coordinates, if the g

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- 4). Find the original

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- 4) The vertices of a triangle are A $(-2, 1)$ , B $(2, 2)$  and C $(1, 1)$ . Find the coordinates of the dilated triangle A'B'C' with a scale factor of 2.

- 5) Find the coordinates of the dilated triangle D'E'F' to D' $(4, 0)$ , E' $(4, 2)$  and F' $(4, 4)$  with a scale factor of 2.

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- 5) Write the coordinates of the dilated triangle A'B'C' with a scale factor of 3.

- 6) Find the coordinates of the dilated triangle D'E'F' with a scale factor of 6.

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- 6) WXYZ is dilated to W'X'Y'Z' with a scale factor of  $\frac{7}{8}$  and the center of dilation is  $(0, -8)$ . The coordinates of the original image are given by W $(0, 0)$ , X $(0, 8)$ , Y $(16, 16)$  and Z $(8, 0)$ . Find the dilated coordinates.

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## Dilation

- 1) Write the coordinate rule, when the center of dilation is  $(\frac{6}{7}, 9)$  and the scale factor is  $\frac{7}{3}$ .

$$\left(\frac{7}{3}x - \frac{8}{7}, \frac{7}{3}y - 12\right)$$


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- 2) LMN is dilated to L'M'N' with a scale factor of  $\frac{3}{4}$  and the center of dilation is  $(-3, 0)$ . The coordinates of the original image are given by L $(-7, -8)$ , M $(-3, -4)$  and N $(-11, 12)$ . Find the dilated coordinates.

- 3) The dilated coordinates, if the g

S $(-9$

- 4). Find the original

- 4) The vertices of a triangle F'(2, 2) with a scale f

- l to D'(4, 0), E'(4, 2) and

- 5) Write the coordinates

- scale factor is 6.

$$(6x - 50, 6y + 35)$$


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- 6) WXYZ is dilated to W'X'Y'Z' with a scale factor of  $\frac{7}{8}$  and the center of dilation is  $(0, -8)$ . The coordinates of the original image are given by W $(0, 0)$ , X $(0, 8)$ , Y $(16, 16)$  and Z $(8, 0)$ . Find the dilated coordinates.

$$W'(0, -1), X'(0, 6), Y'(14, 13), Z'(7, -1)$$


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