

- 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 $(4, 3)$  and C $(1, 5)$ . Find the coordinates of the dilated triangle A'B'C' with a scale factor of  $\frac{1}{2}$ .

- 5) Find the coordinates of the dilated triangle D'E'F' with a scale factor of 2, if the original triangle has vertices D $(2, 0)$ , E $(4, 2)$  and F $(6, 4)$ .

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- 5) Write the coordinates of the dilated image of the triangle with vertices A $(1, 2)$ , B $(3, 4)$  and C $(5, 6)$  with a scale factor of 6.

- 6) Find the coordinates of the dilated image of the triangle with vertices A $(1, 2)$ , B $(3, 4)$  and C $(5, 6)$  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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