

tions, translations, rotations, and reflections on two- ates.	Triangle ABC has vertices at A(0, 4), B(2, 10), and C(8, 8) and is dilated by a scale factor of 1/4, with the origin used as the center of dilation, to produce the image A'B'C'. What are the coordinates of the vertices of the dilated image A'B'C'? A. A'(0, 1), B'(0.5, 2), C'(4, 4) B. A'(0, 1), B'(0.5, 2.5), C'(2, 2) C. A'(1, 1), B'(2, 2), C'(4, 4) D. A'(1, 0), B'(2.5, 2.5), C'(2, 2) Quadrilateral ABCD will be dilated with a scale factor of 1/2. Which of the following will not be a vertex of the image, quadrilateral A'B'C'D'? A. (-3, 3) B. (-2, -1) C. (-1, 0) D. (1, 2)	Which is the image of the point (-6, -9) after a 180° rotation around the origin? A. (6, 9) B. (6, -9) C. (-9, 6) D. (9, -6) The circle shown below is centered at (0,0) and passes through point P located at (2,0). The circle is dilated with the center of dilation at the origin and a scale factor of 0.5 and then translated up 3 units.
8.G. 3 Describe the effect of dilations dimensional figures using coordinates	Triangle PQR has vertices P (2, 1), Q (3, -1), R (1, 0). It is rotated 180° clockwise about the origin. Which set of coordinates represents triangle P'Q'R'? (A.) P' (-1, 2), Q' (1, 3), R' (0, 1) (B.) P' (-2, -1), Q' (-3, 1), R' (-1, 0) (C.) P' (1, -2), Q' (-1, -3), R' (0, -1) (D.) P' (2, 1), Q' (3, -1), R' (1, 0) Triangle QRS is drawn on a coordinate grid where Q(-3,2), R(6,1), and S(3, -4). Michelle draws its image, $\Delta Q'R'S'$, on the same coordinate grid using the translation rule (x,y) \rightarrow (x-6, y +1). What are the coordinates of $\Delta Q'R'S'$? Q' R' S'	The diagram below shows the location of \overline{EF} on a coordinate plane. Suppose that \overline{EF} is rotated 180° about the origin.