

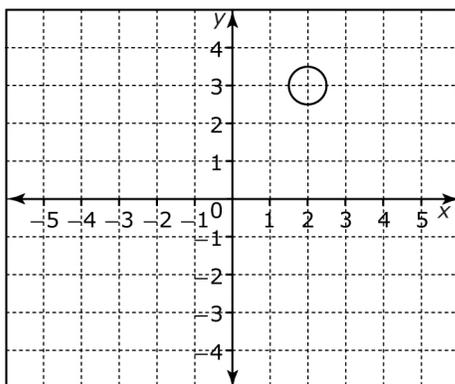
Chapter 6 Test

For #1 to #5, select the best answer.

1. Point P(3,3) is reflected over the y-axis and translated 3 units down. What are the coordinates of the new point?

A (0, -3) **B** (3, 0)
C (-3, 0) **D** (-3, 3)

2. Reflect the circle over the x-axis. Then, reflect it over the y-axis. Where is the centre of the final image?

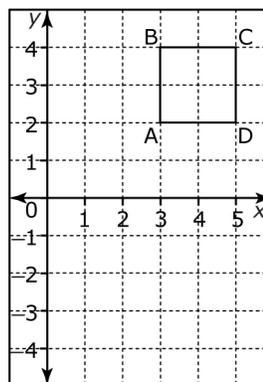


A (2, -3) **B** (-2, 3)
C (2, -2) **D** (-2, -3)

3. A line begins at (0, 0) and ends at (5, 0). When the line is rotated 180°, where is its endpoint?

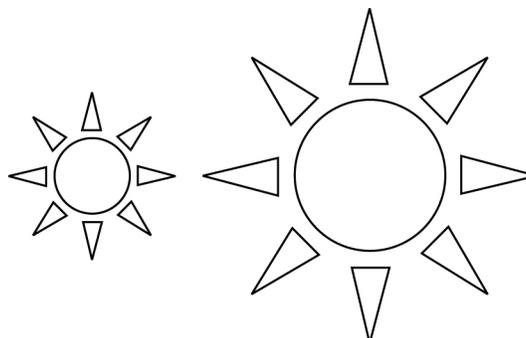
A (-5, 0) **B** (0, -5)
C (5, 0) **D** (0, 5)

4. Rotate the square 90° clockwise about the origin. What are the coordinates of the corners of the image?



A A'(-2, 3), B'(-4, 3),
C'(-4, 5), D'(-2, 5)
B A'(2, -3), B'(4, -3),
C'(4, -5), D'(2, -5)
C A'(-3, -2), B'(-3, -4),
C'(-5, -4), D'(-5, -2)
D A'(2, -3), B'(4, 3),
C'(4, -5), D'(2, 5)

5. The image has undergone a transformation. Which is the best description of the transformation?

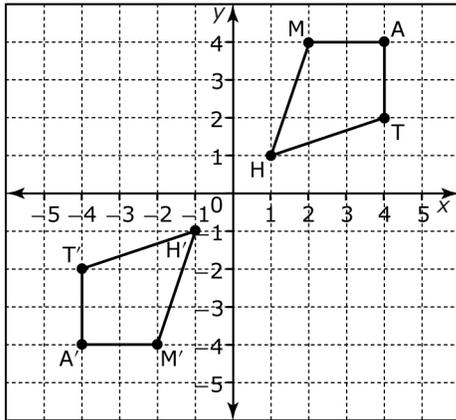


A rotation **B** dilation
C reflection **D** translation

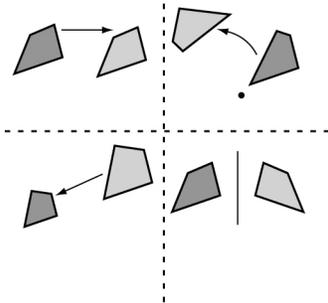


BLM 6-8
(continued)

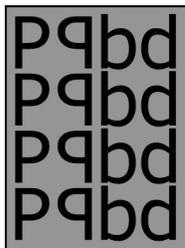
6. Describe the transformation(s) used to transform the original in Quadrant I to the image in Quadrant III.



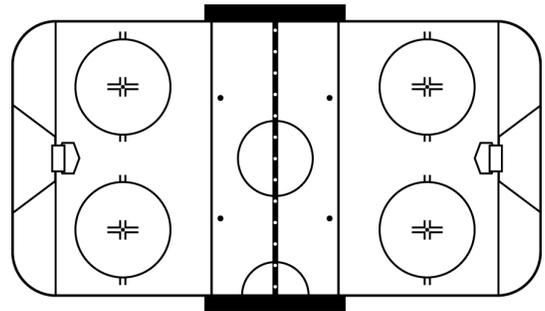
7. Label each of the transformations with one of the following terms: translation, rotation, dilation, reflection.



8. Which two transformations were used to create the pattern?



9. An NHL hockey rink has a trapezoid shape behind each goal. Describe two ways of transforming one trapezoid image to the other.



10. Perform the following transformations, in order, using the diagram.
- translate the shape 2 right and 3 up
 - rotate 180° about the origin
 - reflect over line r

