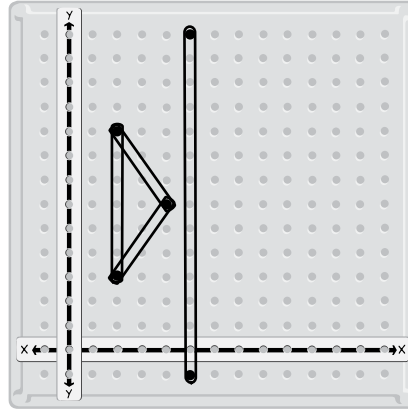


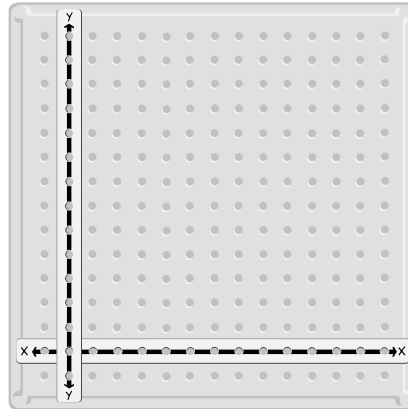
Use an *XY* Coordinate Pegboard, pegs, and rubber bands to plot the points, model the figure and show the line of reflection. Reflect the points over the line. Write the ordered pairs of the image.

- line of reflection: $x = 5$
 (2, 3) reflected point _____
 (2, 9) reflected point _____
 (4, 6) reflected point _____



Using an *XY* Coordinate Pegboard, pegs, and rubber bands, model the figure by connecting the points in the order listed. Plot the line of reflection. Reflect the figure over the line and sketch the image. Write the ordered pairs of the image.

- line of reflection: $x = 7$
 (2, 1) reflected point _____
 (4, 4) reflected point _____
 (4, 9) reflected point _____
 (2, 12) reflected point _____



Find the ordered pairs of the reflected points.

- | | |
|--|--|
| <ol style="list-style-type: none"> line of reflection: $x = 6$
 (4, 2) reflected point _____
 (3, 3) reflected point _____ | <ol style="list-style-type: none"> line of reflection: $x = 4$
 (2, 2) reflected point _____
 (3, 8) reflected point _____ |
| <ol style="list-style-type: none"> line of reflection: $x = 3$
 (5, 9) reflected point _____
 (5, 2) reflected point _____
 (6, 4) reflected point _____ | <ol style="list-style-type: none"> line of reflection: $x = 5$
 (1, 4) reflected point _____
 (2, 1) reflected point _____
 (3, 7) reflected point _____ |

Challenge! When you reflect a point over a vertical line, what is the relationship of the y -coordinate of the new point compared to the original point? Explain.

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