

Name \_\_\_\_\_

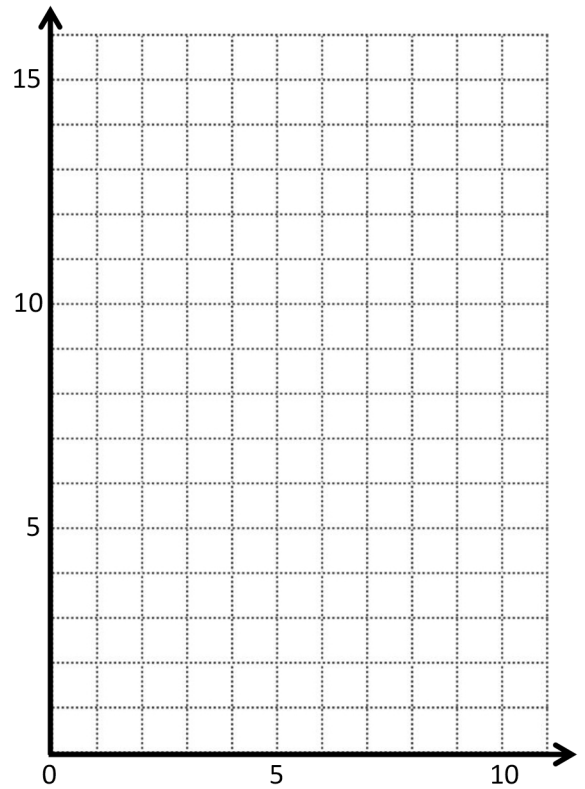
Date \_\_\_\_\_

1. Use the plane at right to complete the following tasks.
  - a. Draw a line  $s$  whose rule is,  $x$  is always 5.
  - b. Plot the points from Table A on the grid in order. Then draw line segments to connect the points in order.

**Table A**

(1, 13)
(1, 12)
(2, 10)
(4, 9)
(4, 3)
(1, 2)
(5, 2)

**Table B**

- c. Complete the drawing to create a figure that is symmetric about line  $s$ . For each point in Table A, record the symmetric point on the other side of  $s$ .
- d. Compare the  $y$ -coordinates in Table A with those in Table B. What do you notice?
- e. Compare the  $x$ -coordinates in Table A with those in Table B. What do you notice?

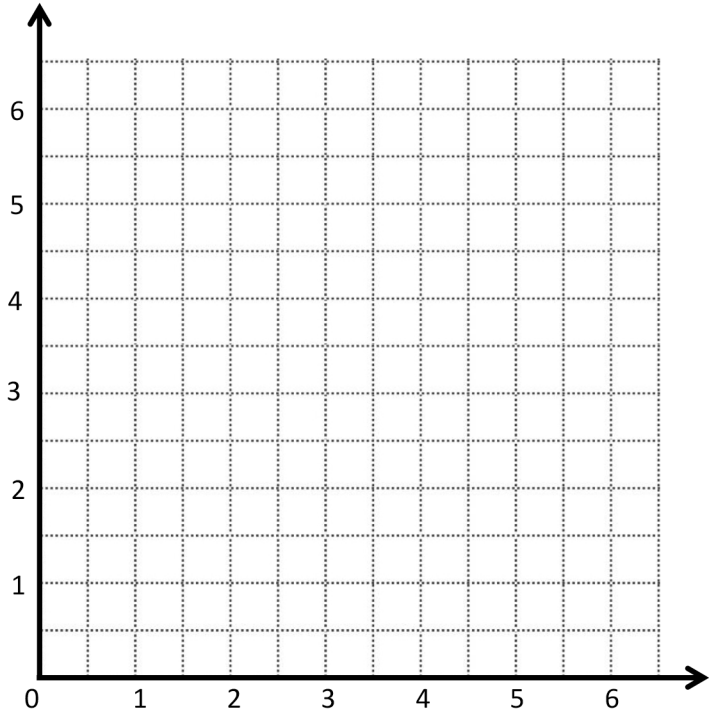
2. Use the plane at right to complete the following tasks.

- a. Draw a line  $p$  whose rule is,  $y$  is equal to  $x$ .
- b. Plot the points from Table A on the grid in order. Then draw line segments to connect the points.

**Table A**

$(\frac{1}{2}, \frac{1}{2})$
$(1, 2)$
$(1\frac{1}{2}, 1\frac{1}{2})$
$(2, 4)$
$(3\frac{1}{2}, 3\frac{1}{2})$
$(4, 4\frac{1}{2})$
$(5, 5)$

**Table B**

- c. Complete the drawing to create a figure that is symmetric about line  $p$ . For each point in Table A, record the symmetric point on the other side of the line  $p$  in Table B.
- d. Compare the  $y$ -coordinates in Table A with those in Table B. What do you notice?
- e. Compare the  $x$ -coordinates in Table A with those in Table B. What do you notice?

## Answer Key

1.
  - a. Line drawn
  - b. Points plotted; figure drawn
  - c. Symmetric figure drawn;  
(9, 13); (9, 12); (8, 10); (6, 9); (6, 3);  
(9, 2); (5, 2)
  - d. Answers will vary.
  - e. Answers will vary.
2.
  - a. Line drawn
  - b. Points plotted; figure drawn
  - c. Symmetric figure drawn;  
 $(\frac{1}{2}, \frac{1}{2})$ ; (2, 1);  $(1\frac{1}{2}, 1\frac{1}{2})$ ; (4, 2);  $(3\frac{1}{2}, 3\frac{1}{2})$ ;  
 $(4\frac{1}{2}, 4)$ ; (5, 5)
  - d. Answers will vary.
  - e. Answers will vary.