Name_____ Date_____ Period_____

LESSON 7-5 · SESSION 2 · PREREQUISITE PRACTICE A · SKILL 1 OF 2

Find Mirror Images on a Grid

Builds on Grade 4 · 4.G.A.3

TODAY'S LESSON	You will reflect (−6, 3) across the y-axis.
YOU NEED TO	Find a mirror image: the same distance on the other side of the line. **You will use it in Practice Form A, problems 3 and 4.**

STEPS TO FOLLOW

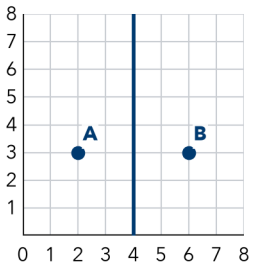
use these same steps on every problem

1. Count how far the point is from the **mirror line**.
2. Go the **same distance** on the other side.
3. Keep the **other coordinate** the same.

WATCH ME

the steps in action

The mirror line goes straight up through 4.
Find the image of A(2, 3).



Step 1 A is 2 units left of the line.
Step 2 Go 2 units right of the line: x = 6.
Step 3 y stays 3. The image is (6, 3).
Answer **(6, 3)**

TRY IT WITH HELP

fill in each step

1. The mirror line goes straight up through 4. Find the image of (3, 2).

Step 1 (3, 2) is _____ unit left of the line.
Step 2 Go 1 unit right of the line: x = _____.
Step 3 y stays 2. The image is _____.

2. The mirror line goes straight up through 4. Find the image of (1, 6).

Step 1 (1, 6) is _____ units left of the line.
Step 2 Go 3 units right of the line: x = _____.
Step 3 y stays 6. The image is _____.

YOUR TURN

use the steps on your own

3. The mirror line goes straight up through 4. Find the image of each point.

a. (2, 5) _____ **b.** (0, 3) _____ **c.** (4, 7) _____

d. (3.5, 1) _____ **e.** (6, 2) _____ **f.** (8, 4) _____

Name the x- and y-Coordinates

Builds on Grade 5 · 5.G.A.1

TODAY'S LESSON	You will see that (2, −7) and (2, 7) differ only in y.
YOU NEED TO	Name the x- and y-coordinates of a point, like (3, −5): x = 3, y = −5. **You will use it in Practice Form A, problems 5 and 6.**

STEPS TO FOLLOW

use these same steps on every problem

1 The **first** number is x (left or right).

2 The **second** number is y (up or down).

3 Compare two points **one coordinate** at a time.

WATCH ME

the steps in action

Which coordinate is different: (4, 7) or (4, −7)?

Step 1 x: 4 and 4.

Step 2 y: 7 and −7.

Step 3 x is the same. y is different.

Answer **y**

TRY IT WITH HELP

fill in each step

4. Which coordinate is different: (−3, 6) or (3, 6)?

Step 1 x: _____ and _____.

Step 2 y: _____ and _____.

Step 3 Different: _____

5. Which coordinate is different: (5, −2) or (−5, 2)?

Step 1 x: _____ and _____.

Step 2 y: _____ and _____.

Step 3 Different: _____

YOUR TURN

use the steps on your own

6. Which coordinate is different? Write x, y, or both.

a. (−9, −4) and (−9, 4) _____

b. (2.5, 1) and (−2.5, 1) _____

c. (8, 0) and (−8, 0) _____

d. (1, 3) and (−1, −3) _____

e. (0, 5) and (0, −5) _____

f. (−6, 2) and (6, 2) _____

READY CHECK

a problem like the one in today's lesson

7. Point M is (3, −4) and point N is (3, 4). Which coordinate is different?

A x only **B** y only **C** both x and y **D** neither

CHECK YOURSELF ☐ I can do this on my own ☐ I need a little help ☐ I have a question about #____