Name_____ Date_____ Period_____

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

Find Opposites of Rational Numbers

Builds on Lesson 7-2 Session 2 · 6.NS.C.6a

TODAY'S LESSON	You will reflect points. Each reflection changes one coordinate to its opposite.
YOU NEED TO	Find the opposite of a number, like −5.5 and 5.5. **You will use it in Practice Form A, problems 1 and 7.**

STEPS TO FOLLOW

use these same steps on every problem

1. Find the number's **distance** from 0.
2. **Switch** sides of 0: left becomes right, right becomes left.
3. Write the number on the new side. −( ) means **the opposite of**.

WATCH ME

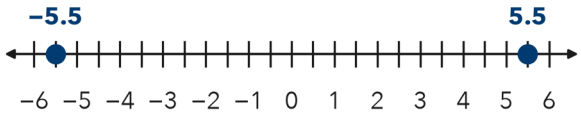
the steps in action

Find the opposite of −5.5.

Step 1 −5.5 is 5.5 units from 0.

Step 2 −5.5 is left of 0. Switch to the right.

Step 3 The opposite is 5.5.



Answer 5.5

TRY IT WITH HELP

fill in each step

1. Find the opposite of 3.25.

Step 1 3.25 is _____ units from 0.

Step 2 3.25 is right of 0. Switch to the _____.

Step 3 The opposite is _____.

2. Find −(−8).

Step 1 −8 is _____ units from 0.

Step 2 −8 is left of 0. Switch to the _____.

Step 3 −(−8) = _____

YOUR TURN

use the steps on your own

3. Write the opposite of each number.

a. 9 _____ **b.** −4 _____ **c.** −11 _____

d. 0 _____ **e.** −0.75 _____ **f.** −7.5 _____

Name a Point's Quadrant

Builds on Lesson 7-5 Session 1 · 6.NS.C.6b

TODAY'S LESSON	You will name the quadrant where each reflected point lands.
YOU NEED TO	Name a quadrant from the signs, like (5, −2) is in Quadrant IV. **You will use it in Practice Form A, problems 2 and 7.**

STEPS TO FOLLOW

use these same steps on every problem

1. Look at the **x sign**: + is right, − is left.
2. Look at the **y sign**: + is up, − is down.
3. Name the **quadrant**: I up-right, II up-left, III down-left, IV down-right.

WATCH ME

the steps in action

Which quadrant holds (5, −2)?

Step 1 x = 5 is +, so right.

Step 2 y = −2 is −, so down.

Step 3 Down and right is Quadrant IV.

Answer **Quadrant IV**

TRY IT WITH HELP

fill in each step

4. Which quadrant holds (−2, 6)?

Step 1 x is −, so _____.

Step 2 y is +, so _____.

Step 3 Quadrant _____

5. Which quadrant holds (−7, −1)?

Step 1 x is −, so _____.

Step 2 y is −, so _____.

Step 3 Quadrant _____

YOUR TURN

use the steps on your own

6. Name the quadrant.

a. (3, 8) _____ **b.** (4, −9) _____ **c.** (−0.5, 3) _____

d. (1.5, −2.5) _____ **e.** (−6, −6) _____ **f.** (−3, 4) _____

READY CHECK

a problem like the one in today's lesson

7. (4, 7) reflects across the x-axis to (4, −7). Which quadrant is (4, −7) in?

A Quadrant I **B** Quadrant II **C** Quadrant III **D** Quadrant IV

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