

Name:

Date:

Period:

Lesson 7.1
Introduction into Rational Numbers

1. Write the opposite of each number.

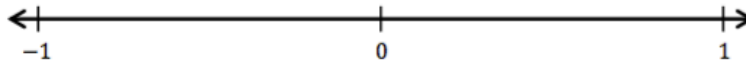
a. $\frac{10}{7}$

b. $-\frac{5}{3}$

c. 3.82

d. $-6\frac{1}{2}$

2. Choose a non-integer between 0 and 1. Label it point A and its opposite point B on the number line. Write values below the points.



- a. To draw a scale that would include both points, what could be the length of each segment?
b. In words, create a real-world situation that could represent the number line diagram.

3. Choose a value for point P that is between -6 and -7 .

- a. What is the opposite of P ?
b. Use the value from part (a), and describe its location on the number line in relation to zero.
c. Find the opposite of the opposite of point P . Show your work and explain your reasoning.

4.

A carp is swimming approximately $8\frac{1}{4}$ feet beneath the water's surface, and a sunfish is swimming approximately $3\frac{1}{2}$ feet beneath the water's surface. Which fish is swimming further beneath the water's surface?

5.

Rational Numbers	Ordered from Least to Greatest	Opposites	Opposites Ordered from Least to Greatest
-7.1, -7.25	-7.25, -7.1	7.25, 7.1	7.1, 7.25
$\frac{1}{4}, -\frac{1}{2}$			
2, -10			
0, $3\frac{1}{2}$			
-5, -5.6			
$24\frac{1}{2}, 24$			
-99.9, -100			
-0.05, -0.5			
-0.7, 0			
100.02, 100.04			