**Fishtank Plus
Feature Sample**

Problem Set

7th Grade Mathematics
Unit 2 - Operations with Rational Numbers
Lesson 2

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Name: _____   Date: _____

1. Use inequality symbols to make each statement true. (> or <)

a. 45 _____ 45$\frac{1}{2}$	b. -8 _____ -10	c. -8 _____ -8.5	d. 19 _____ 0	e. -2 _____ -3
f. 5 _____ -2	g. -1 _____ -0.5	h. 5.5 _____ -4	i. -10 _____ $-10\frac{1}{2}$	j. -5 _____ -70

2. Which inequality makes the statement true?

$$-4.5 \qquad |-4.5|$$

A. >

B. <

C. =

D. None of the above

3. Which inequalities are correct? Select **all** that apply.

   A. $1 > -2$

   B. $-0.5 < -1$

   C. $-10.5 < -10$

   D. $5.8 < -6$

   E. $-5.8 > -6$

4. Consider the following two examples.
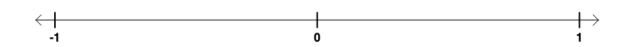

$$-1, -\frac{5}{4}, 0$$

$$-1, -\frac{5}{4}, 0$$

   a. Fill in the numbers in the correct order, considering the inequality signs.

   b. Create a new pair of greater than and less than inequality statements using three other rational numbers. Put them in increasing and decreasing order.

5. For each of the relationships described below, write an inequality that relates the rational numbers.

   a. Losing 70 dollars on a bet is worse than losing 10 dollars on a bet.

b. Zero degrees Fahrenheit is warmer than negative 10 degrees Fahrenheit.

c. A quiz grade of 80 is worse than a quiz grade of $81\frac{1}{2}$, and a quiz score of $81\frac{1}{2}$ is worse than a quiz score of 90.

d. In April, the total rainfall was 6.5 inches, which was more than the total rainfall in June, or 3.2 inches.

6. Sonia invested some of her money in the stock market. When Sonia sold some of her stock, she made a table of how much money she gained or lost from each one. Use her table to answer the following questions.

Company	Apple	P & G	Google	Yum Brands	Twitter	General Motors	Boeing	Lockheed
Gain/Loss	$3	$-1	$7	$-9	$-2	$-5	$-3	2

Arrange the amounts she gained or lost in order from least to greatest.

7. On the number line below, place the numbers 0.5, -0.4, -0.15 in their approximate locations. Then, write a comparison statement using inequality symbols.

8. Which inequality below shows a true statement?

   A. $-4.8 > -4.5$

   B. $-4.9 < -4.7$

   C. $2.15 < -5.9$

   D. $0 > 8.2$

9. Amy and Stephanie had a contest to see who could swim to the deepest point underwater. Amy swam to an elevation of $-10\frac{1}{2}$ feet and Stephanie swam to an elevation of $-10\frac{3}{4}$ feet. Who swam to a greater distance below sea-level? Explain your answer.

10. Plot the following numbers on the number line below.

$$-1, \frac{1}{2}, -1\frac{3}{4}, \frac{3}{4}$$