Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_

Topic 4.1-4.5 Review

***Identify the following set of numbers by sorting them into the listed three categories.***

9 0 -1 -1.8 - 5/6 |-5| 0 -0.98

Integers

Whole Numbers

Rational Numbers

1. -7 + (8) is \_\_\_\_\_\_\_\_ units from negative seven in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ direction.
2. 4 - (-9) is \_\_\_\_\_\_\_\_ units from four in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ direction.
3. **Draw a numberline** to represent and then evaluate: -1 + 7
4. **Draw a numberline** to represent and then evaluate: 5 - 12
5. **Draw a numberline** to represent and then evaluate: -3 – (-6)
6. **Using chips,** show how to represent and then evaluate: 3 + 5
7. **Using chips,** show how to represent and then evaluate: -7 + 5
8. **Using chips,** show how to represent and then evaluate: -2 - 9
9. What is an additive inverse? Define it and give an example.
10. Subtraction can always be written as addition. Explain and give an example.
11. **EXPLAIN** the mathematical processes between the **difference of -1 and -4** and the **difference of -4 and -1**? Show how you found your answer. (HINT: What operation does “difference” mean?
12. **EXPLAIN** how you know right off that bat if your answer will be positive or negative in any given problem. **THEN,** give an example to prove your point.

**Evaluate the following expressions.**

**SHOW ALL WORK!!!!**

7.3 + 9.1

****  **-**2.7 + (-4.8)