**Reading Guide #2: 1.3, 1.4**

Carefully read the ***Instruct*** portion in Hawkes for the section listed. You are preparing your mind for the classroom lecture by viewing this material beforehand. Learning to read a math textbook is a skill different from reading other types of texts or books. Slow down and read ALL the details – learn to “hear” the authors’ voice – this will take some time, effort and practice. When you feel frustrated, take a short break from your studies. Come back, and try again.

Section 1.3: Subtraction with Real Numbers

Objectives

* Find the additive inverse (opposite) of a real number.
* Subtract real numbers.
* Find the change in value between two numbers.
* Find the net change for a set of numbers.

Instruct

1. What is the additive inverse (opposite) of -8?
2. On slide 7 of "Instruct" the screen reads, “… to subtract b from a, add the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ of b to a.
3. “In practice, the notation, a-b is thought of as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ numbers.” So, we can rewrite 5 – 13 as 5 + (-13) AND vice versa.
4. “To find the **change in value** of two numbers, take the final value and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the beginning value.
5. Perform the indicated operations: 
6. Is x = -4 the solution to the equation:  **YES/NO**

Section 1.4: Multiplication and Division with Real Numbers

Objectives

* Multiply real numbers.
* Divide real numbers.
* Calculate the average (or mean) of a set of numbers.

Instruct

1. The product of a positive number and a negative number will be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ .
2. The product of two negative numbers is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. a)  \_\_\_\_\_\_\_\_ for any values of x. b) : Division by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is UNDEFINED.
4. The quotient of two numbers with opposite signs is **POSITIVE**; **NEGATIVE** or **DEPENDS**.
5. The quotient of two numbers with the same sign is **POSITIVE**; **NEGATIVE** or **DEPENDS.**
6. Describe how to find the average of five numbers?
7. Find the product: 3 • 4 • 0 = \_\_\_\_\_\_\_\_\_
8. Find the product: (-3)(2) = \_\_\_\_\_\_\_\_\_\_\_\_\_
9. Find the average of the following 5 numbers: -3, 5, 8, 2, 3