Lesson 5.4 – Multiplying Integers

**Standard:** *Number Sense 2.3*– Solve addition, subtraction, multiplication, and division problems including those arising in concrete situations, that use positive and negative integers and combinations of those integers.

**Content Objective (Know):** I will know how to multiply positive and negative integers.

**Language Objective (Do):** I will demonstrate how to multiply positive and negative integers by solving multiple problems, written on my whiteboard.

**Multiplying integers RULES:**

**Same Sign =** The product of two integers with the same sign

is ***POSITIVE***.

***Example:*** *-5 x -4 = 20 5 x 4 = 20*

**Different Signs =** The product of two integers with different

signs is ***NEGATIVE***.

***Example:*** *-6 x 2 = -12 6 x -2 = -12*

**Zero =** The product of an integer and 0 is ***0***

***Example:*** *-5 x 0 = 0 5 x0 = 0*

**Example 1: Multiply integers**

**1.) -9 (2) 2.) -3(-4) 3.) 6(-6)(2) 4.)** $9^{2}$

**Step 1:** Multiply both numbers together

**Step 2:** Follow multiplying rules for the sign on the product

**CFU – Whiteboard**

1.) 4 (8) 2.) -3(11) 3.) 5 (-6)

4.) -5(7) 5.) -4(-4)(-2) 6.) -5(-5)(3)(-2)

7.) $3^{2}$ 8.) $-4^{3}$ 9.)$ -3^{4}$