Lesson 6.2 – The Distributive Property

**Standard:** *A.F. 1.4*– Apply algebraic order of operations and the commutative, associative and distributive properties to evaluate expressions; and justify each step.

**Content Objective (Know):** I will know how to solve problems using the distributive property.

**Language Objective (Do):** I will demonstrate how to solve multiple step equations using the distributive property by solving multiple problems, written on my whiteboard.

**Vocabulary:**

**Equivalent Expressions** –

**Examples –**

**4 + 1 = 2 + 3**

$\frac{1}{4}$ $÷$ $\frac{3}{2}$ = $\frac{1}{4}$ $x$ $\frac{2}{3}$

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| Distributive Law (Property) |  |
| The Distributive Law means that you get the same answer when you multiply a number by a group of numbers added together as when you do each multiplication separatelyExample: 3 × (2 + 4) = 3×2 + 3×4So the "3" can be "distributed" across the "2+4" into 3 times 2 and 3 times 4. |
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**Example 1: Use the distributive property (law) to write an *equivalent expression*:**

**1.) 5(3+7) 2.) 7(3) + 7(4) 3.) 6(**$\frac{5}{12}$**) - 6(**$\frac{1}{12}$**)**

**Example 2: Use the distributive property (law) to *EVALUATE* the expression**

**1.) 8(2 +6) 2.) 3(**$\frac{2}{5}$**) – 3 (**$\frac{1}{5}$**) 3.) 9(13.2) +9(6.8)**

**CFU – Whiteboard**

**Use the distributive property (law) to write an *equivalent expression***

1. 4(4+5) 2.) 8(100-4) 3.) 4($\frac{5}{12}$) + 4 ($\frac{2}{12}$)

**Use the distributive property (law) to *EVALUATE* the expression**

4.) 2(7-2) 5.) 4(8.1) +4(2.9) 6.) 11($\frac{5}{8}$) + 11($\frac{3}{8}$)