Lesson 8.2 – Solving Addition and Subtraction Equations

**Standard:** *A.F. 1.1*– Write and solve one-step linear equation in one variable.

**Content Objective (Know):** I will know how to solve addition and subtraction equations.

**Language Objective (Do):** I will write on my white board then orally describe the steps to solve an addition and subtraction equation to my shoulder partner and in mix-pair share.

**Vocabulary:**

1. **Inverse Operation** – An operation that “undoes”

another operation.

**Example** – *n*-10 = 5

 + 10 +10

1. 15

**Example #1 – Solving an Addition Equation**

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| **Problem:** $X+7=10$**Step 1:** Write the original equation.**Step 2**: Subtract 7 from both sides.**Step 3**: Simplify |

**Example #2 – Solving a Subtraction Equation**

**Problem:** $-9=y-12$

**Step 1:** Write the original equation.

**Step 2**: Add 12 to both sides.

**Step 3**: Simplify

**Example #3 – Combining Like Terms**

**Problem:** $2=1.3+a+4.7$

**Step 1:** Write the original equation.

**Step 2**: Group like terms.

**Step 3**: Combine like terms.

Step 4: Subtract 6 from each side.

**Whiteboard – CFU**

1. **) t+8 = 15 2.) 16 + *y* = 22 3.) 9 = *z* – 12**

**4.) 5 = 4 + *c* – 2 5.) 3.4 + *s* – 1.3 = 6.8**