|  |  |
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| Name:\_\_\_\_\_\_\_\_\_\_ | Date:\_\_\_\_\_\_\_\_\_\_\_\_ |
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***Combining like terms to solve equations***

***Notes***

|  |  |
| --- | --- |
| **Essential Questions?** |  **Problems of the day**  |
| 1.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 1. *Simplify 2 – 3 + 9d +7 – 6d*
2. Solve: -4*h* + 23 = 15 *3.* Solve:  + 7 = -1
 |

 ***Connect***

 Example 1 A Example 2 A

Solve the following equation: Solve the following equation

 **-8 + 2*x* = 20** **-10 + 2 + 3*x* - *x* = 20**

**Steps for solving equations**

1. **Combine Like terms**
2. **Add or subtract**
3. **Multiply or divide**

\*\*\*\*\*\*In order to combine like terms the “like terms” need to be on the same side of the equation

Example 2: **3 = 2*x* - 2 - 8 – *x Step 1 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

 **Step 2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **Step 3 \_\_\_\_\_\_\_\_\_\_\_\_\_**

Example 3:  **3 = 4*x* + 2 - 2*x* – 7 *Step 1 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

 **Step 2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **Step 3 \_\_\_\_\_\_\_\_\_\_\_\_\_**

***Guided Practices***

1)  Check

|  |  |
| --- | --- |
| Left |  Right |
|   |  |

2)  Check

|  |  |
| --- | --- |
| Left |  Right |
|   |  |

3) 

***Combining like terms to solve equations Class work***

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***Directions: SOLVE the following equations***

|  |  |  |
| --- | --- | --- |
| 1. –a + 5a = -52
 | 1. 6h – 8h + 9 = 37
 | 1. 2 = 6f – 3 – f
 |
| 1. -8 = 5y - 3y
 | 1. 99 – 4s – 6s = -1
 | Check # 5  |
| 1. 2t + 10 – t = -7
 | 1. 5a – 2 – 4a = 0
 | Check # 7  |
| 1. 8g + 4 – 5g = -5
 | 1. 3t + 2t + 7 = 32
 | Check # 9 |

Directions: Solve and check the following equations

1. 3n + 4n = 63
2. 4b – 4 – 8b = 12
3. -2x – 3 + 8x = -45
4. 1 = 4c + 7 – 3c + 8

12)  13) 