|  |  |
| --- | --- |
| Name:\_\_\_\_\_\_\_\_\_\_ | Date:\_\_\_\_\_\_\_\_\_\_\_\_ |
| Period:\_\_\_\_\_\_\_\_\_\_\_ | Page:\_\_\_\_\_\_\_\_\_\_\_ |

**Solving Equations with Distributive Property Notes**

|  |
| --- |
|  **Problem of the day****Plan Solve Check**  |
| **Essential Question** | **Steps for solving multiple steps equations** |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

How do you use the distributive property to simplify an expression? | 1.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_3.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_4.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_5.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

Example 1 2( x – 1) = 4x+ 6 1 .\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 3.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 4.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 5.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Example 2 **30 = 5 (*x* + 2)** 1.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 3.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 4.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 5.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Example 3 10(*x* – 8) = 4*x* + 2*x* - 2 + 10 1.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 3.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 4.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 5.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Example 4 -(4– 8x) = 20 – 2x

|  |  |
| --- | --- |
| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Using the Distributive Property to Solve |
| Lesson #6 | Work Period |

***Directions: SOLVE & Check***

1. 16 - 8 = 4(*x* + 6)
2. 10(*x* – 8) = 4*x* + 2*x* - 2 + 10
3. 2 = 2(*m* – 2)

3(3 - 10*n*) = -51

1. 40 = (*q* + 2)10
2. -5(*a* + 2) - 2 = -12
3. ½(4*g* + 8) = 3*g* – 9
4. -(4 - 8x) = 20
5. 0.4(3*x* + 27.5) = 0.2*x*
6. How do you know if you will be using the distributive property in an equation?
7. When do you apply the distributive property? 1st step, before/after combining like terms or last step?

|  |  |
| --- | --- |
| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Using the Distributive Property to Solve |
| Lesson #6 | Homework |

***Directions: SOLVE each equation***

1. 3(*n* + 3) = 0
2. 4 (– 8 + *b*) = 0
3. -2(*x* – 3) = *x*
4. (3*c* + 7)3 = 2(*c* + 7)