Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Lesson #54 - Simplify Expressions ~ Inverses

Do Now:

1. What operation do you use when performing the distributive property?
2. What do you do anytime you see subtraction in a problem?
3. What rules do you follow for combining like terms?

Directions: Write the sum and then write an equivalent expression by using the distributive property and/or combining like terms.

|  |  |
| --- | --- |
| 1. and | 1. and the opposite of |
| 1. The additive inverse of and | 1. and |

Directions: Write the product and then write the expression by using the distributive property and/or

combining like terms.

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|  |  |
| --- | --- |
| 1. and the multiplicative inverse of | 1. The multiplicative inverse of and |
| 1. The multiplicative inverse of and | 1. The reciprocal of and |

Directions: Simplify the following expressions using the distributive property and combining like terms.

|  |  |
| --- | --- |
|  |  |
|  |  |
| 1. (4x – 9) + ( 2x – 11) | 1. (-2x + 6) – (6x + 8) |