Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table# \_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_

**1.0A NOTES – Simplifying Algebraic Expressions**

**WATCH VIDEO:** <https://www.youtube.com/watch?v=y7GwRJOIohM>

|  |
| --- |
| VOCABULARY FOR 8X – 4X + 9  Terms: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Coefficients: \_\_\_\_\_\_\_\_ Variable: \_\_\_\_\_  Constant: \_\_\_\_\_\_ Like Terms: \_\_\_\_\_\_\_\_\_ |

**Follow up:** What is the difference between an expression and an equation? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**SIMPLIFYING ALGEBRAIC EXPRESSIONS**

|  |  |
| --- | --- |
| Example 1: Simplify 10b + 13 – 6b + 4 | Example 2: Simplify 2(5x + 4) – 12x |

**Try It Yourself**

|  |  |
| --- | --- |
| 1. Simplify 9m – 7m + 3 + 6m | 1. Simplify 4(3x – 2) + 1 |

**CREATING EQUIVALENT ALGEBRAIC EXPRESSIONS - Examples**

|  |  |
| --- | --- |
| Original Expressions | 2 Equivalent Expressions |
| -6x + 8x + 3 |  |
| 8(2x + 2) – 4 + 3 |  |

**BACK 🡪**

**APPLICATION**

|  |  |
| --- | --- |
| Original Expressions | 2 Equivalent Expressions |
| 7x – 5x + 3 |  |
| 3(2x + 2) – 4 |  |

**TRY IT YOURSELF:**

**Create 2 expressions.** Then trade papers with your partner so he/she can create an expression that is equivalent to your expression. Partners must show their work to prove the expressions are equivalent. EACH EXPRESSION MUST HAVE A MINIMUM OF 3 TERMS.

|  |  |
| --- | --- |
| Original Expressions **(YOU)** | 2 Equivalent Expressions**(PARTNER): \_\_\_\_\_\_\_\_\_** |
|  |  |
|  |  |

**HW: 20 Questions (Ice Breaker for 8th grade math) - handout**

Objective: Simplifying algebraic expressions. Creating equivalent algebraic expressions.

CCSS: Preparing for 8.EE.7a & b