Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Homework (WEEK 8) S+**

**TRY YOUR BEST AND SHOW ALL OF YOUR WORK! Use CUBES (circle, underline, box, evaluate, and solve) to earn full credit.**

**TUESDAY:**

**Directions:** Solve the following problems. You *MUST* show your work. ***NO WORK = NO CREDIT.***

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| 1. Simplify the following expressions:   5y + 2(4 + 3y) – y + 32  Answer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   1. 9xy – 2x + y + x – xy + 4x   Answer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 4. Evaluate the following if g = 6, m = 2, and d = 8.   * 1. gm3 + 2d =\_\_\_\_\_\_   2. md + 4(g + 4) = \_\_\_\_\_   m3   * 1. 12d – gm = \_\_\_\_ |
| 3. Which property was used to simplify this expression?  3y + 42x + 7y – 5x  3y + 7y + 42x - 5x  10y + 37x  **Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_** | 5. Write the expression described by the phrase. (use a variable for “number”)   1. Seven minus a number \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. Six more than a number\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3. Twice a number increased by four\_\_\_\_\_\_\_\_\_\_\_ 4. Eight less than a number\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**WEDNESDAY:**

**Directions:** Solve the following problems. You *MUST* show your work. ***NO WORK = NO CREDIT.***

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| 1. Use the distributive property to produce an equivalent expression for:  4(x2 + xy) + 3(x + x2) – x – 5x2  Answer \_\_\_\_\_\_\_\_\_\_\_\_\_\_  2. 11m + 6(m + mn) – 2mn + 3(n + 4)  Answer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 4. The expression 24c + 18 can represent the area of the figure below. Using the distributive property find the width and then use the distributive property to find the length.   |  |  | | --- | --- | | 24c | 18 |   Answer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 3. Evaluate the expression 3x + 2y when *x* =6 and *y* = 2.5  Answer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 5. Evaluate the following when x = 3 and y = 2.                                               (x3 – y4) + y(x0 • 12)                               52 + x • 3 + 1  Answer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**THURSDAY:**

**Directions:** Solve the following problems. You *MUST* show your work. ***NO WORK = NO CREDIT:***

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| 1. Use the distributive property to produce an equivalent expression for:   7a(2a + 3) + 5( - 2a)  Answer: \_\_\_\_\_\_\_\_\_\_\_\_ | 3. Write an algebraic expression that represents 12 less than the product of 8 times a number squared.  Answer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  4. Evaluate (2/3)3 =\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 2. 7a + 2 (You can NOT say 7a plus 2. Think of another way to translate this expression)  Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 1. Combine like terms to simplify the following:   10(w + 4a) – 12 + 3(w – 8)  Answer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**MONDAY/WEDNESDAY:**

Solve the following problems **without a calculator**. You *MUST* show your work. ***NO WORK = NO CREDIT.***

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| 1. Simplify the following expression:   20w – 4x + 3w – 8 + 42x ÷ 7  Answer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_     1. Use the distributive property to produce an equivalent expression for   21x ÷ 3 + 6(3 – x) + 70  Answer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 5. Simplify the following expressions.  12r + 6(4r – 3) + 52 – 9r2  Answer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  6. 6(4x – 2) – 9x + 42  Answer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 3. Evaluate:  6*xy* when *x* = 3.7 and *y* = 11  Answer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  4. when x = 6, y = 12 and z = 5  Answer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 7. Write the following algebraic expressions in word form.  8(2*z* – 4) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  8. 5y + 4 (You can NOT say 5y plus 4. Think of another way to translate this expression)  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |