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

**Homework (WEEK 7) Honors:**

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

**MONDAY:**

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

|  |  |
| --- | --- |
| 1. Write an algebraic expression for the following: 2. Twice a number decreased by 8 \_\_\_\_\_\_\_\_\_\_\_ 3. The sum of 5 and a number increased by 6 \_\_\_\_\_\_\_\_\_\_\_\_\_ 4. A number squared more than 4 \_\_\_\_\_\_\_\_\_\_\_ 5. d. 8 less than a number of elephants \_\_\_\_\_\_\_ | 2. What is the value of:   1. 0.43 = \_\_\_\_\_\_\_\_\_\_      1. 5 + 24∙ 6 ÷ 6= \_\_\_\_\_\_\_\_\_\_ 2. 62 + 25x ÷ 5 • 2 + 6.780 • x \_\_\_\_\_\_\_\_\_\_   If x=3 |
| 3.A rectangle has a length of 3x and a width of  x + 4. The rectangle’s perimeter is: \_\_\_\_\_\_\_\_\_\_  The rectangle’s area is: \_\_\_\_\_\_\_\_\_\_  A square has a side length of 6y2. What is the perimeter of the square? \_\_\_\_\_\_ | 4.Underline key words and write an algebraic expression for the following phrases:   1. fourteen decreased by a number p \_\_\_\_\_\_\_\_\_\_\_\_\_ 2. the product of a number and 6 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3. nine more than the number of math assignments   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**TUESDAY:**

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

|  |  |
| --- | --- |
| 1. 5y + 4 (You can NOT say 5y plus 4. Think of another way to translate this expression)   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 2. Write an algebraic expression to represent the following:  a) The sum of a number and the quantity two times a number minus one.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  b) Seven divided by the sum of a number plus 2.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  c) The quantity six plus a number divided by two.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  d) Triple the difference between a number and 7.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 3. Write a mathematical story for the following equation.  15b = 180  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 3. Solve.  (6 • 4 ÷ 3)2 – (24 – 5 • 2)  **Answer \_\_\_\_\_\_\_\_\_\_\_** |

**WEDNESDAY:**

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

|  |  |
| --- | --- |
| 1. Solve the equation for x.   a) 3x + 10 = 15 x = \_\_\_\_\_\_  b) 4x – 8 = 8 x = \_\_\_\_\_\_\_  c) 5x + 1 = 16 x = \_\_\_\_\_\_\_ | 2. Evaluate the expression 3*x2* + 2*y* ÷ 2 when *x* is equal to 4 and *y* is equal to 2.4.  Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  3. Evaluate 5*(n2* + 3) – 7*n*, when n= ¼  Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 3. Evaluate the following expression when *x* = ½ and *y* =3    Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  4.  when x = 6, y = 12 and z = 5  Answer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 5. Given that the width is 6 units and the length can be represented by x2 + 6, what is the area of the flowers below?  x2 6   |  |  | | --- | --- | |  |  |     6  Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**THURSDAY:**

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

|  |  |
| --- | --- |
| 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 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 7. Write the following algebraic expressions in word form. 8(2*z* – 4) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |