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.$$\frac{x^{2}- 2y + 3(z-1)}{y} $$when x = 6, y = 12 and z = 5Answer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 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 + 42Answer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 3. Evaluate: 6*xy* when *x* = 3.7 and *y* = 11Answer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 7. Write the following algebraic expressions in word form. 8(2*z* – 4) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  |