Homework (WEEK 8) HONORS

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

TUESDAY:

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

| 1. | Simplify the | following e | xpressions: |
|----|--------------|-------------|-------------|
| | | | |

$$-2(4+3.2) - y + 3^2 + 5y$$

Answer ____

2.
$$9xy - 2x + y + x - xy + 4x$$

4. Evaluate the following if g = 6, m = 2, and d = 8.

a.
$$gm^3 + 2d$$

$$=$$

$$\underline{b.} \quad \underline{md + 4(g + 4)} = \\ \underline{\qquad} \quad 2$$

c.
$$12d - gm = ____$$

Answer

 $3. \ Which \ property \ was \ used \ to \ simplify \ this \ expression?$

$$3y + 42x + 7y - 5x$$

 $3y + 7y + 42x - 5x$
 $10y + 37x$

- 5. Write the expression described by the phrase. (use a variable for "number")
 - a. Seven minus a number _____
 - b. Six more than a number _____
 - c. Twice a number increased by four
 - d. Eight less than a number_____

Answer:

WEDNESDAY:

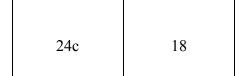
Directions: Solve the following problems. You <u>MUST</u> show your work. <u>NO WORK = NO CREDIT.</u>

1. Use the distributive property to produce an equivalent expression for:

$$-4(x^2 + xy) + 3(x + x^2) - x - 5x^2$$

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.



2. 11m + 6(m + mn) - 2mn + 3(n + 4)

Answer

Answer

3. Evaluate the expression 3x + 2y when x = 6 and y = 2.5

5. Evaluate the following when x = 3 and y = 2.

$$(x^3 - y^4) + y(x^0 \cdot 12)$$

| | $5^2 + x \cdot 3 + 1$ | | | | | |
|---|--|--|--|--|--|--|
| | | | | | | |
| | | | | | | |
| | Answer | | | | | |
| Answer | | | | | | |
| THURSDAY: | | | | | | |
| <u>Directions:</u> Solve the following problems. You \underline{MUST} show your work. $\underline{NO\ WORK} = \underline{NO\ CREDIT}$: | | | | | | |
| Use the distributive property to produce an equivalent expression for: | 3. Write an algebraic expression that represents 12 less than the product of 8 times a number squared. | | | | | |
| $7a(2a+3) + 5(a^2-2a)$ | Answer | | | | | |
| Answer: | 4. Evaluate (2/3) ³ = | | | | | |
| 2. 7a + 2 (You can NOT say 7a plus 2. Think of another | 5. Combine like terms to simplify the following: | | | | | |
| way to translate this expression) | 10(w + 1/4) – 12 + 3(w – 8) | | | | | |
| Answer: | | | | | | |
| | Answer | | | | | |
| MONDAY/V | VEDNESDAY: | | | | | |
| | ou <u>MUST</u> show your work. NO WORK = NO CREDIT. | | | | | |
| 1. Simplify the following expression: | 5. Simplify the following expressions. | | | | | |
| $20w - 4x + 3w - 8 + 42x \div 7$ | $12r + 6(4r - 3) + 5^2 - 9r^2$ | | | | | |
| | | | | | | |
| Answer | Answer | | | | | |
| 2. Use the distributive property to produce an equivalent expression for $21x \div 3 + 6(3-x) + 7^0$ | 6. $6(4x-2)-9x+4^2$ | | | | | |
| | Answer | | | | | |
| Answer | | | | | | |
| 3. Evaluate: | 7. Write the following algebraic expressions in word | | | | | |
| | form. | | | | | |
| 6xy when $x = 3.7$ and $y = 11$ | 0(2 4) | | | | | |
| Answer | 8(2z-4) | | | | | |
| 4. $\frac{x^2 - 2y + 3(z-1)}{y}$ when x = 6, y = 12 and z = 5 | 8. 5y + 4 (You can NOT say 5y plus 4. Think of another way to translate this expression) | | | | | |
| Answer | | | | | | |
| | | | | | | |