Name: _____

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._**

1. Simplify the following expressions: $5y + 2(4 + 3y) - y + 3^2$ Answer _____ 2. $9xy - 2x + y + x - xy + 4x$ Answer _____	4. Evaluate the following if $g = 6$, $m = 2$, and $d = 8$. a. $gm^3 + 2d$ =_____ b. $\dfrac{md + 4(g + 4)}{m^3}$ =_____ c. $12d - gm$ =____
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") a. Seven minus a number _____ b. Six more than a number_____ c. Twice a number increased by four_____ d. Eight less than a number _____

WEDNESDAY:

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

1. Use the distributive property to produce an equivalent expression for: $4(x^2 + xy) + 3(x + x^2) - x - 5x^2$ 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 $y = 2$. $\dfrac{(x^3 - y^4) + y(x^0 \cdot 12)}{5^2 + x \cdot 3 + 1}$ Answer _____

THURSDAY:

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

1. Use the distributive property to produce an equivalent expression for: $7a(2a + 3) + 5(a^2 - 2a)$ 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: _____	5. 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._**

1. Simplify the following expression: $20w - 4x + 3w - 8 + 42x \div 7$ Answer _____ 2. Use the distributive property to produce an equivalent expression for $21x \div 3 + 6(3 - x) + 7^0$ Answer _____	5. Simplify the following expressions. $12r + 6(4r - 3) + 5^2 - 9r^2$ Answer _____ 6. $6(4x - 2) - 9x + 4^2$ Answer _____
3. Evaluate: $6xy$ when $x = 3.7$ and $y = 11$ Answer _____ 4. $\frac{x^2 - 2y + 3(z-1)}{y}$ when x = 6, y = 12 and z = 5 Answer _____	7. Write the following algebraic expressions in word form. $8(2z - 4)$ _____ 8. $5y + 4$ (You can NOT say 5y plus 4. Think of another way to translate this expression) _____