Name:
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:

Directions: Solve the following problems. You $\underline{\text { MUST }}$ show your work. $\underline{\text { NO WORK }}=$ NO CREDIT.

1. Simplify the following expressions:

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

4. Evaluate the following if $g=6, \mathrm{~m}=2$, and $\mathrm{d}=8$.
a. $\quad \mathrm{gm}^{3}+2 \mathrm{~d}$
$=$ $\qquad$
b. $\underline{\mathrm{md}+4(\mathrm{~g}+4)}=$ $\mathrm{m}^{3}$
c. $12 \mathrm{~d}-\mathrm{gm}$
$=$ $\qquad$
5. Write the expression described by the phrase. (use a variable for "number")
a. Seven minus a number $\qquad$
b. Six more than a number $\qquad$
c. Twice a number increased by four $\qquad$
d. Eight less than a number

## WEDNESDAY:

Directions: Solve the following problems. You $\underline{\text { MUST }}$ show your work. $\underline{\text { NO WORK }=\text { NO CREDIT. }}$

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

$$
-4\left(x^{2}+x y\right)+3\left(x+x^{2}\right)-x-5 x^{2}
$$

Answer $\qquad$
2. $11 m+6(m+m n)-2 m n+3(n+4)$

Answer
3. Evaluate the expression $3 \mathrm{x}+2 \mathrm{y}$ when $x=6$ and $y=2.5$
4. The expression $24 c+18$ 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.


Answer $\qquad$
5. Evaluate the following when $\mathrm{x}=3$ and $\mathrm{y}=2$.

$$
\left(x^{3}-y^{4}\right)+y\left(x^{0} \cdot 12\right)
$$

$\qquad$

## THURSDAY:

Directions: Solve the following problems. You MUST show your work. $\underline{\text { NO WORK }=\text { NO CREDIT: }}$

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

$$
7 \mathrm{a}(2 \mathrm{a}+3)+5\left(a^{2}-2 \mathrm{a}\right)
$$

Answer: $\qquad$
2. 7a +2 (You can NOT say 7a plus 2. Think of another way to translate this expression)
3. Write an algebraic expression that represents 12 less than the product of 8 times a number squared.

Answer $\qquad$
4. Evaluate $(2 / 3)^{3}=$ $\qquad$
5. Combine like terms to simplify the following:
$10(w+1 / 4)-12+3(w-8)$

Answer

## MONDAY/WEDNESDAY:

Solve the following problems without a calculator. You $\underline{\text { MUST }}$ show your work. NO WORK = NO CREDIT.

1. Simplify the following expression:

$$
20 w-4 x+3 w-8+42 x \div 7
$$

Answer $\qquad$
2. Use the distributive property to produce an equivalent expression for

$$
21 x \div 3+6(3-x)+7^{0}
$$

5. Simplify the following expressions.
$12 \mathrm{r}+6(4 \mathrm{r}-3)+5^{2}-9 \mathrm{r}^{2}$

Answer $\qquad$
6. $6(4 x-2)-9 x+4^{2}$

Answer $\qquad$
7. Write the following algebraic expressions in word form.
$8(2 z-4)$
8. $5 y+4$ (You can NOT say $5 y$ plus 4 . Think of another way to translate this expression)

Answer $\qquad$

