Name: $\qquad$
Name: $\qquad$

## 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 $\underline{\underline{M U S T}}$ show your work. NO WORK = NO CREDIT.

1. Write an algebraic expression for the following:
a. Twice a number decreased by 8 $\qquad$
b. The sum of 5 and a number increased by 6
c. A number squared more than 4 $\qquad$
d. 8 less than a number of elephants $\qquad$
3.A rectangle has a length of $3 x$ and a width of $x+4$. The rectangle's perimeter is: $\qquad$

The rectangle's area is: $\qquad$

A square has a side length of $6 y^{2}$. What is the perimeter of the square?
2. What is the value of:
a) $0.4^{3}=$
b) $5+2^{4} \cdot 6 \div 6=$
c) $6^{2}+25 x \div 5 \cdot 2+6.78^{0} \cdot x$ If $x=3$
4.Underline key words and write an algebraic expression for the following phrases:
a. fourteen decreased by a number p $\qquad$
b. the product of a number and 6 $\qquad$
c. nine more than the number of math assignments
$\qquad$
TUESDAY:
Directions: Solve the following problems. You $\underline{M U S T}$ show your work. $\underline{\text { NO WORK }=\text { NO CREDIT. }}$

| 1. $5 y+4$ (You can NOT say $5 y$ plus 4 . Think of another way to translate this expression) | 2. Write an algebraic expression to represent the following: <br> a) The sum of a number and the quantity two times a number minus one. <br> b) Seven divided by the sum of a number plus 2 . <br> c) The quantity six plus a number divided by two. $\qquad$ <br> d) Triple the difference between a number and 7 . |
| :---: | :---: |
| 3. Write a mathematical story for the following equation. $15 b=180$ | 3. Solve. $(6 \cdot 4 \div 3)^{2}-\left(2^{4}-5 \cdot 2\right)$ <br> Answer |

Name: $\qquad$

## WEDNESDAY:

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


## THURSDAY:

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

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

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

Answer
3. Evaluate:
$6 x y$ when $x=3.7$ and $y=11$
5. Simplify the following expressions.

$$
12 r+6(4 r-3)+5^{2}-9 r^{2}
$$

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

Answer $\qquad$
7. Write the following algebraic expressions in word form. $8(2 z-4)$

Answer $\qquad$

Name:

