Name: _____

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:
 	
  a. Twice a number decreased by 8
 	
  _____
 	
  b. The sum of 5 and a number increased by 6
 	
  _____
 	
  c. A number squared more than 4 _____
 	
  d. 8 less than a number of elephants _____
	2. Solve:
	
	  a. $5^3 - 3(9 \cdot 2^3 \div 2)$
	
	Answer _____

3. Identify the rule:
 	
  a. If a number has a power of 1, it always equals
 	
  _____. Example: _____
 	
  b. If a number has a power of 0, it always equals
 	
  _____. Example: _____
	4. Underline key words and write an algebraic expression for the following phrases:
	
	  a. fourteen decreased by a number p _____
	
	  b. the product of a number and 6 _____
	
	  c. nine more than the number of math assignments
	
	  _____

TUESDAY:

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

1. Evaluate: $12^2 + 5 + 7(2) \cdot 12^0 - 3^4 + 10^3$ **Answer** _____	3. Solve. $(6 \cdot 4 \div 3)^2 - (2^4 - 5 \cdot 2)$ **Answer** _____
2. A clockmaker must wind his clocks on a regular schedule. He winds some of his clocks every two days, some of his clocks every three days, and the remainder of his clocks every five days. When will he wind all of his clocks on the same day? **Answer** _____	4. Simplify and Solve. $\dfrac{4^9 \times 9^5}{4^7 \times 9^4}$ **Answer** _____

WEDNESDAY:

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

1. Orlando and Omar are giving bike tours around Charlotte. Orlando's tour leaves every 40 minutes and Omar's tour leaves every 25 minutes. If Orlando and Omar begin their first tour at 10:00am, what time will they begin their next tour together?
 	
Answer _____
	2. Write a phrase for each algebraic expression:
	
	  a. $g + 6$ _____
	
	  b. $2n - 7$ _____
	
	  c. $x - 2$ _____

3. Put the following fractions in ascending order: ½ **0** ¼ **1/3** ¾ **1**	4. Evaluate the following given that b=3, x = 6, and y = 3 a) $4b + 9$ b) $\dfrac{12y}{x}$ c) $\dfrac{y^3 \cdot 2}{9}$ _____ _____ _____

THURSDAY:

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

1. Simplify the following expression:
 	
    $-20w - 4x + 3w - 8 + 42x \div 7$
 	
Answer _____
	5. Simplify the following expressions.
	
	  $12r + 6(4r - 3) + 5^2 - 9r^2$
	
	Answer _____

2. Use the distributive property to produce an equivalent expression for $21x \div 3 + 6(3 - x) + 7^0$ Answer _____	6. $6(4x - 2) - 9x + 4^2$ Answer _____
3. Evaluate: $6xy$ when $x = 3.7$ and $y = 11$ Answer _____	7. Write the following algebraic expressions in word form. $8(2z - 4)$ _____