Name:

Homework (WEEK 4) 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 <u>MUST</u> show your work. NO WORK = NO CREDIT.

1.	Place one set of parentheses in the correct place	2. Explain in complete sentences where and why
	to make the statement true.	Mr. Wernecke went wrong when solving this
	a. $12 + 12 \div 3 + 3 \bullet 4 + 4^2 = 36$	problem.
		Step 1:
		$(27^{0} \cdot 8^{2})$
		$\overline{2(4^2 \div 2)}$
	b. $12 + 12 \div 3 + 3 \bullet 4 + 4^2 = 76$	
		Step 2:
		<u>27 • 16</u>
		$2(8 \div 2)$
	c. $12 + 12 \div 3 + 3 \bullet 4 + 4^2 = 44$	
		Step 3:
		432 = 432
		$2(4)^{-}$ 8
3.	It was a cold winter day in Charlotte with a	4. Evaluate:
	record low of 8 degrees. When the sun went	a. $6^3 + 2^5 - 5^3 + 10^2 \cdot 1000^0$
	behind the clouds it dropped twelve degrees.	
	What was the temperature at night? (Hint: Draw	
	a number line)	
		b $2^9 - 4^4 \div 2^5 \bullet 7 - 10^1 \bullet 6^0$
3a.	4, 560 ÷ 12 =	

TUESDAY:

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

1.	Solve.	2.	Evaluate:
	$\frac{(6 \cdot 3 - 8)^2 \div 4(5^2 \div 5)}{5^3 \div (5^2 \cdot 5)}$		$\frac{6^4 \cdot 7^3}{6^3 \cdot 7}$
			$\frac{4^3 \bullet 3^3}{2^4 \div 4^0}$
3.	Write out the following in expanded form and	1.	Evaluate.
	solve. 3^4		a. $(6^2 \div 9)^3$
Ev	aluate:		
	a. $6^3 + 9^2$		
	b. $8^3 - 2^6$		b. $(5^3 \div 5)^2$

WEDNESDAY

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

1.	List the Order of Operations. Explain how it all works. Also explain why using the order of operations is important?	2.	A total of \$450 is divided into equal shares. If Kairy receives four shares, Trey receives three shares, and Anthony receives the remaining two shares, how much money did Trey receive?
3.	Solve.	4.	Solve.
	a. $(9^0 + 3)^3 - 6(72 \div 9) + 12$		$\frac{12^2 - 5(3 \cdot 3 + 3)}{2}$
	b. $8 + 10 \cdot 5 - 9$		

THURSDAY

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

1. Solve.	2. List the first 10 multiples of each number:
$\frac{(5^2 + 5 \cdot 4) + 7(3^3 \div 9)}{2^3 + 3}$	a. 9
2 1 5	b. 12
	c. 6
3. Simplify and solve. $ \frac{a}{8} \frac{8^4 \cdot 9^3}{8^3 \cdot 9^2} $ b. $(6^2 - 2^4) + 3(5^0 \cdot 8)$	 4. Jeremy picks up pennies every day. He picked up two pennies on the first day. He picked up twice as many pennies the next day. He picked up twice as many pennies the 3rd day as he did the 2nd day and so on. In exponential form, write an expression to find the number of pennies he picked up on
$10 + 4 \cdot 3 - 14$	the 8 th day.

Honors-Homework: Friday, September 18, 2015

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

1.	 Using the divisibility rules, state what each number is divisible by (using the rules for 2, 3, 5, and 10) and EXPLAIN WHY. a. 57 b. 47 				hat each es for 2, 3, 5,	2. Ty wrote 64 as 8 • 2. What did she do wrong?
						3. Write in exponential form
	c. 690)				$c \cdot c \cdot c \cdot v \cdot v \cdot v \cdot 6 \cdot 6 \cdot 6$ $w \cdot w \cdot w$ $\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$
4. In the list of numbers below, put a Oround the prime numbers and put a Oround the composite numbers.				7, put a	Oround the nd the	5. Solve. $(6 \cdot 4 \div 3)^2 - (2^4 - 5 \cdot 2)$
11 91	24	33	51	27	99	
63 54	31	25	43	57	1	

Weekend Homework

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

 Challenge: Write (3²)³ using a single exponent. 	 Write About It: Compare 10³ and 3¹⁰. For any two numbers, which usually gives the greater answer, using the larger number as the base or as the exponent? Give at least one exception.
3. Write an algebraic expression for the following:	4. In a hockey league, 87 players play on seven
Give an example of a variable to the fifth power.	different teams. Each team has at least 12 players. What is the largest possible number of players on any one team?
The product of 4 and m to the third power.	A. 13 B. 14 C. 15 D.21