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. What is the GCF (greatest common factor) of 24 and 16? Answer: _____ 2. What is the LCM (least common multiple) of 6 and 4? Answer: _____	3. An art project requires 594 rubber bands. If the rubber bands are divided equally among 27 students, how many rubber bands will each student get? Answer: _____
4. Explain the difference between and number to the first power and a number to the zero power. _____ _____ _____	5. What is the value of $\frac{3^2}{8}$? A) $\frac{9}{8}$ B) $\frac{6}{16}$ C) $\frac{9}{64}$ D) $\frac{3}{64}$ 6. What is the value of $3^4 \div (18 - 15)^2$? Answer: _____

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

1. List the factors of the given numbers: 35: _____ 28: _____ Explain what the GCF (greatest common factor) means? Answer: _____	2. A carpenter used 1,176 screws. One box contained 56 screws. How many boxes of screws did the carpenter use? Answer: _____
3. Gisele returned 3 t-shirts which originally cost $3 each to his favorite clothing store. While there, Gisele bought a pocketbook for $12 and 4 pairs of earrings at $2 a pair. If the price of the returned shirts was deducted from his purchase, which equation shows the amount of money that Ken owes the store, not including tax? A) $12 + 2 \bullet 4 - 3^2 = 39$ B) $12 + 2 \bullet 4 - 3^2 = 42$	4. A store gave away a $15 gift card to every eighth customer and a $10 gift card to every twelfth customer. Which customer would be the first to receive both the $15 and $10 gift cards? A) 12th customer B) 24th customer C) 30th customer D) 60th customer

C) $12 + 2 \bullet 4 - 3^2 = 11$ D) $12 + 2 \bullet 4 - 3^2 = 14$	

WEDNESDAY:

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

1. Evaluate: $11^2 + 4 - 7 \bullet 3^4 - 2^4 + 8^2$ Answer: _____	2. What is the greatest common factor (GCF) between 18 and 12? Answer: _____
3. Without using long division, is the number 513 divisible by 3? How do you know? _____ _____ 4. Sandi bought two pieces of wood in lengths of 24 inches and 20 inches. She needs to cut the wood into pieces of equal length. What is the greatest possible length of the pieces? Answer: _____	5. Solve. (remember: do the top, then the bottom, then divide your top/bottom) $$\frac{9^2 - 4(7\text{-}1\text{+}3)}{5^2 + 20}$$ Answer: _____

THURSDAY:

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

1. Gigi bought a new motorcycle. The loan is $17,472. She will make equal payments every month for 4 years. What will be the monthly payment on Gigi's motorcycle loan? Answer: _____	2. How is 3 x 3 x 3 x 3 x 3 x 3 expressed in exponential form? A) 6^3 B) 3^6 C) $(3+3)^6$ D) $(3 \, x \, 3)^6$ 3. Mandy is counting by 6s beginning at zero. Tiki is counting by 10's beginning at zero. What is the smallest same number that they both will say as they count? A) 3 B) 60 C) 30 D) 10
3. Mr. Su hires Reba to work at his mall cart. The first week, Mr. Su pays her $200 fir working 5 days. At this rate, how much will Mr. Su pay Reba for working 47 days? Answer: _____	4. Evaluate the expressions if a $= 6.2$ and b $= 9.4$. a. $\dfrac{6a + 4b}{2^3} =$ b. $2a^2 - 7b =$