NUMBER THEORY REVIEW

Everything you need to know for the test:
• palindromes
• odd
• even
• prime
• composite
• abundant
• deficient
• perfect
• proper factors
• perfect square
• factor
• multiple
• prime factorization
• GCF
• LCM
• divisibility rules
• order of operations
• properties of addition and multiplication
• scientific vs arithmetic calculator

Be able to define each, give examples or use each, know ways to figure them out…..

What happens when you add two of one kind of number or subtract, multiply, or divide?
What happens when you have two different kinds of numbers?
odd + odd= even x odd= even x even x odd= and more

Think about the 30/49 game. What is a good move? Not a good move? Okay move? Why? What makes them this kind of move? How do you know if a number is abundant, deficient or perfect? Does that help with the 30 game? What is a proper factor?

Factors-what are they? How can you figure them out? Be able to list from smallest to greatest (look for the partner).

GCF- how can you find this using a factor tree? Can you have a LCF? What would it be?

Multiple-what are they? How can you figure them out?

LCM-how can you find this using a factor tree? Why can’t you have a GCM?

What was the Sieve? Why did we use it? What did it tell us? What was Goldbach’s Conjecture?
What is the difference between a prime and composite number?
Why is 2 the only even prime number?

Prime factorization—what is it? Be able to get to the prime factors of a number using a factor tree. Use exponents.

What is an exponent? What is a base? Be able to figure out what a number is to a certain power.

What are the divisibility rules for: 2, 3, 4, 5, 6, 8, 9, and 10?

Order of Operations—practice!!! (PRMDAS)—work problems using the correct order

What is the difference between a scientific and arithmetic calculator? Try using both and see what happens with the order of operations.

Know and understand the Properties of Addition and Multiplication—

- Commutative
- Associative
- Distributive
- Identity Property
- Zero Property

What can I use to help me study for this test?

Use your spiral notebook filled (it should be!!) with notes and examples from class. Look over your old homeworks and make sure you can still do what was expected of you. Use them to practice. Make up some of your own problems. Redo the quiz that we took earlier. You need to know all of the things on that quiz!

What other things can I do?

I will be here before school, at recess (not Monday), and after school. If you need help….ask!

Call a friend and study together.

Be sure you have a good idea of everything on this review sheet!

Come into class prepared to do well on this test. Have a P. M. A.—Positive Mental Attitude.

If all else fails, sleep on your notes and hope you can learn this through osmosis!!

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Parent’s Signature