**Number Unit Test on Monday, November 19, 2018**

*Concepts to Review:*

* Place value to millions **and beyond**
  + Understanding the value of each digit in a number based on place value
  + Representing large numbers in various ways, including in standard form, in words, in expanded form, and with a place value chart
  + Understanding large numbers
  + Comparing and ordering large numbers
  + Understanding what *periods* are in a large number
* Problem solving
  + Word problems involving **all** operations (addition, subtraction, multiplication, division), including multiple step problems
  + Using **estimation** to check that your answer is reasonable
  + Showing your work/explaining your thinking and answering in a sentence
* Factors, multiples, prime and composite
  + Factor rainbows to list all factors of a number
  + Factor trees to show the prime factorization of a number
  + Identifying common factors between pairs and sets of numbers
  + Distinguishing between prime and composite numbers and explaining why
  + Identifying a given number as prime or composite and justifying your choice
  + Listing multiples of a number
  + Identifying common multiples between pairs and sets of numbers, including the *least common multiple*
  + Using Venn diagrams
  + Solving word problems involving these concepts
* Integers
  + Using positive and negative numbers to represent situations
  + Creating situations that a given integer could represent
  + Using yellow and red tiles to represent positive and negative numbers respectively
  + Placing integers on a number line
  + Opposite integers
  + Comparing and ordering integers
* Order of Operations (excluding exponents)
  + Evaluating expressions using order of operations (BEDMAS)
  + Showing the steps taken in evaluating these expressions

*How to Prepare:*

* Complete Show What You Know (pages 82-83 in the textbook)
* Review explanations and examples in Unit 2 of the textbook (starting on page 44), particularly focusing on concepts you’ve had trouble with
* Review work you’ve done in class and your factors, multiples, prime and composite check-in
* Khan Academy (searching for the topics listed above and/or doing the optional “assignments”)
* Use online games to practice, including those linked on the blog. You can also do a Google search “Grade 6 online [concept] games” for a particular concept that you want more practice with (for example “Grade 6 online factor games”)
* **Talk to your teacher *before* the test if there are still concepts you are having trouble with and would like to review! Don’t wait until the day of the test to realize that you don’t understand something! I am here to help you!**