Math Unit 2: Using Numbers and Organizing Data
Study Guide

Every time we have a lesson, we are preparing for the next test. Your study guide and your Math Notebook must be a school every day. Your notes, explanations, and illustrations are what you will be studying. Keep focused!

Sometimes a good idea for math homework is to review what is in your notebook and/or on your study guide. The Unit 2 Written Assessment will not include every word or concept on the study guide. However, knowing what these words mean and how they relate to what we are studying is important. Part of being a good mathematician is understanding and using the language of a mathematician.

Many Names for Numbers

name-collection box (Always show at least 4 different ways; +, −, ×, ÷, or a NS.)
equivalent name

Place Value in Whole Numbers

counting numbers
whole numbers
digits
place value
first six place value groups: quadrillions, trillions, billions, millions, thousands, ones

Organizing & Displaying Data

guess
estimate
estimation strategy
- round
- ballpark

tally chart
line plot
bar graph
landmarks:
- maximum
- median
- minimum
- mode
- mean
- range

Problem Solving

algorithms
operation symbols
methods:
- traditional
- partial-sum
- column-addition
- partial-difference
- trade-first

Parts of Algorithms

Addition; addend/sum
Subtraction: minuend/subtrahend/difference

Secure Goals

Be able to:
1. Add and subtract multi-digit numbers.
2. Draw a polygon. Mark the right angles.
3. Explain whether or not a given polygon is a parallelogram.
4. Interpret a tally chart and find the maximum, range, mode, and median for a set of data.
5. Construct a bar graph.

Developing Goals:

Be able to:
1. Write equivalent names for numbers.
2. Measure and draw line segments to the nearest half-centimeter.
3. Estimate sums and differences; solve multidigit addition and subtraction problems.
4. Describe a strategy for estimating sums and differences.