# Go Math 5th Grade

- Decimals: place value, standard, word, and expanded form of decimal numbers, comparing/ordering decimals, multiplying/dividing by multiples of 10, place value relationships, adding/subtracting decimal numbers, estimating decimals on a number line, multiplying decimal numbers with products up to the thousandths place, dividing decimals (w/ dividends up to the hundredths place.

- Multiplying Whole #s: multiply whole #s using 3 primary strategies (box-method, standard algorithm, & partial product/distributive property) and solve multi-step word problems.

- Dividing Whole #s: divide whole #s using 2 primary strategies (big-7 & standard algorithm/long division), interpret remainders (add 1 to the whole #, whole # is the answer, remainder subtracted from the divisor, & remainder is the answer), and solve multi-step word problems.

- Fractions: simplifying fractions, converting fractions, finding equivalent fractions, understanding fractions as division, and dividing whole #s by unit fractions and unit fractions by whole #s, adding & subtracting fractions with unlike denominators, multiplying fractions by fractions, whole #s, and mixed #s using fraction bar models, number line models, area models, and solving using a standard equation.

- Interpreting Line Graphs: reading/understanding line graphs, understanding the difference between different types of data (numerical, categorical, changes over time), and knowing what types of graphs match each type of data.

- Volume: calculating the volume of an irregular shapes figure by counting the cubes that make up the shape, calculating the volume of a rectangular prism using the volume formula (l x w x h), solving volume word problems, finding the additive volume of a composite (l-shaped) figure by cutting it into two boxes, finding the volume of each, and adding the volumes together.

- Measurement: solving word problems (some multi-step) that involve converting within the metric or the customary measurement system.

- Numerical Expressions: order of operations, turning a word problem into a numerical expression, understanding how to solve a multi-step numerical expression that uses parentheses.

- Coordinate Grids: plotting points on a coordinate grid, identifying the ordered pairs that are already plotted, identifying the path from traveling from one point to another.

- Numerical Patterns:  identifying the pattern/rule in a set of data, turning an x/y table into a set of ordered pairs and plotting on a coordinate grid, making predictions about future data based on the rule.

- Geometry: classifying quadrilaterals, understanding the hierarchy of quadrilaterals.

**The majority of the 5th Grade Math State Exam is made up of Word Problems and we will be focusing on how to analyze them to figure out exactly what students need to do in order to solve each problem.** Fractions make up about 50% of the 5th grade Math State Exam, so it is very important that students are reviewing notes and practicing at home **It is also imperative that your child have ALL of their multiplication facts memorized - it will greatly help them succeed this year in 5th Grade Mathematics!!!**

## Assignments

**Homework:**

- Students need to complete their Math Homework EACH NIGHT! It will be collected the next day and graded for a Homework grade.

**Don't Forget to STUDY YOUR MULTIPLICATION FACTS EVERY NIGHT!!!!!**

## Quizzes & Tests

- **Date Coming Soon:** Checkpoint Coming Soon

## Extra Resources

- **Class K12 (good Math Practice clearly separated by concepts):** https://www.classk12.com/practice/grade-5-math/6
- **Khan Academy (good explanations of Math concepts:** https://www.khanacademy.org/math/cc-fifth-grade-math
- **IXL (GREAT Math Practice!!):** https://www.ixl.com/math/grade-5
- **Cool Math 4 Kids:** http://www.coolmath4kids.com/fractions/index.html