

Fifth Grade Math Skills

- Demonstrate an understanding of the value of each place in a multi-digit whole number.
- Multiply multi-digit whole numbers (not to exceed 3-digit by 3-digit).
- Use multiple grouping symbols (parentheses, brackets, or braces) in numerical expressions, and evaluate expressions containing these symbols.
- Write simple expressions that model calculations with numbers, and interpret numerical expressions without evaluating them.
- Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors.
- Use whole-number exponents to denote powers of 10.
- Explain patterns in the number of zeros in the answer, when multiplying or dividing a whole number or decimal by powers of 10.
- Read and write decimals to thousandths using base-ten numerals, word form, & expanded form.
- Round decimals to any place (limit rounding to ones, tenths, hundredths, or thousandths place).
- Compare two decimals to thousandths based on meaning of the digits in each place, using $>$, $=$, and $<$ symbols.
- Add, subtract, multiply, and divide decimals to hundredths (no divisors with decimals).
- Add and subtract fractions (including mixed numbers) with unlike denominators. (May include multiple methods and representations.)
- Multiply a fraction (including mixed numbers) by a fraction.
- Divide unit fractions by whole numbers and whole numbers by unit fractions.
- Solve word problems involving division of whole numbers leading to answers in the form of fractions (including mixed numbers).
- Demonstrate an understanding of multiplication as scaling (resizing).
- Generate two numerical patterns using two given rules.
- Identify apparent relationships between corresponding terms of two patterns with the same starting numbers that follow different rules.
- Display & interpret data shown in tallies, tables, charts, pictographs, bar graphs, line plots, & line graphs and use a title, appropriate scale, and labels. A grid will be provided to display data on bar graphs or line graphs.
- Solve problems involving computation of fractions by using information presented in line plots.
- Convert among different-sized measurement units within a given measurement system. A table of equivalencies will be provided.
- Identify parts of the coordinate plane (x-axis, y-axis, and the origin) and the ordered pair (x-coordinate and y-coordinate). Limit the coordinate plane to quadrant 1.
- Represent real-world and mathematical problems by plotting points in quadrant 1 of the coordinate plane
- Interpret coordinate values of points in the context of the situation.
- Classify two-dimensional figures based on properties.
- Apply the formulas $V=l*w*h$ and $V=B*h$ for rectangular prisms to find volumes of right rectangular prisms with whole-number edge lengths in the context of solving real-world and mathematical problems. Formulas will be provided.
- Find volumes of solid figures composed of two non-overlapping right rectangular prisms.

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