

TEKS Snapshot - Grade 5 Math

| Mathematical Process Standards | | | | | | | |
|--|--|---|--|---|---|--|--|
| 5.1 Mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. | | | | | | | |
| Tools to Know | | | Ways to Show | | | | |
| 5.1(A) | 5.1(B) | 5.1(C) | 5.1(D) | 5.1(E) | 5.1(F) | 5.1(G) | |
| apply mathematics to problems arising in everyday life, society, and the workplace | use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution | select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems | communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate | create and use representations to organize, record, and communicate mathematical ideas | analyze mathematical relationships to connect and communicate mathematical ideas | display, explain, and justify mathematical ideas and arguments using precise mathematical language in written or oral communication | |

Knowledge and Skills Statements

- 5.2 Number and operations. The student applies mathematical process standards to represent, compare, and order positive rational numbers and understand relationships as related to place value.
- 5.3 Number and operations. The student applies mathematical process standards to develop and use strategies and methods for positive rational number computations in order to solve problems with efficiency and accuracy.
- 5.4 Algebraic reasoning. The student applies mathematical process standards to develop concepts of expressions and equations.
- 5.5 Geometry and measurement. The student applies mathematical process standards to classify two-dimensional figures by attributes and properties.
- 5.6 Geometry and measurement. The student applies mathematical process standards to understand, recognize, and quantify volume.
- 5.7 Geometry and measurement. The student applies mathematical process standards to select appropriate units, strategies, and tools to solve problems involving measurement.
- 5.8 Geometry and measurement. The student applies mathematical process standards to identify locations on a coordinate plane.
- 5.9 Data analysis. The student applies mathematical process standards to solve problems by collecting, organizing, displaying, and interpreting data.
- 5.10 Personal financial literacy. The student applies mathematical process standards to manage one's financial resources effectively for lifetime financial security.

| Rptg Cat STA | AAR | Readiness Standards | Supporting Standards | | |
|---|-----|---|---|--|--|
| 1 Numerical Representations and Relationships | | 5.2(B) compare and order two decimals to thousandths and represent comparisons using the symbols >, <, or = 5.4(F) simplify numerical expressions that do not involve exponents, including up to two levels of grouping | 5.2(A) represent the value of the digit in decimals through the thousandths using expanded notation and numerals 5.2(C) round decimals to tenths or hundredths 5.4(A) identify prime and composite numbers 5.4(E) describe the meaning of parentheses and brackets in a numeric expression | | |



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|--|---------------------|---|--|--|--|
| 2 Computations and Algebraic Relationships | 24 | 5.3(E) solve for products of decimals to the hundredths, including situations involving money, using strategies based on place-value understandings, properties of operations, and the relationship to the multiplication of whole numbers 5.3(G) solve for quotients of decimals to the hundredths, up to four-digit dividends and two-digit whole number divisors, using strategies and algorithms, including the standard algorithm 5.3(K) add and subtract positive rational numbers fluently 5.3(L) divide whole numbers by unit fractions and unit fractions by whole numbers 5.4(B) represent and solve multi-step problems involving the four operations with whole numbers using equations with a letter standing for the unknown quantity 5.4(C) generate a numerical pattern when given a rule in the form <i>y</i> = <i>ax</i> or <i>y</i> = <i>x</i> + <i>a</i> and graph | the standard algorithm | | |
| 3 Geometry and Measurement | 12 | 5.4(H) represent and solve problems related to perimeter and/or area and related to volume 5.5(A) classify two-dimensional figures in a hierarchy of sets and subsets using graphic organizers based on their attributes and properties 5.8(C) graph in the first quadrant of the coordinate plane ordered pairs of numbers arising from mathematical and real-world problems, including those generated by number patterns or found in an input-output table | 5.6(A) recognize a cube with side length of one unit as a unit cube having one cubic unit of volume and the volume of a three-dimensional figure as the number of unit cubes (<i>n</i> cubic units) needed to fill it with no gaps or overlaps if possible 5.6(B) determine the volume of a rectangular prism with whole number side lengths in problems related to the number of layers times the number of unit cubes in the area of the base 5.7(A) solve problems by calculating conversions within a measurement system, customary or metric 5.8(A) describe the key attributes of the coordinate plane, including perpendicular number lines (axes) where the intersection (origin) of the two lines coincides with zero on each number line and the given point (0, 0); the <i>x</i>-coordinate, the first number in an ordered pair, indicates movement parallel to the <i>x</i>-axis starting at the origin 5.8(B) describe the process for graphing ordered pairs of numbers in the first quadrant of the coordinate plane | | |
| 4 Data Analysis and Personal Financial Literacy 9 | | SEs Not Included in Assessed Curriculum S.4(0) Table Contrete Objective (V=1 x w x h, V= s x) S.9(C) solve one- and two-step problems using data from a frequency table, dot plot, bar graph, stem-and-leaf plot, or scatterplot | P(A) represent categorical data with bar graphs or frequency tables and numerical data, including data sets of measurements in fractions or decimals, with dot plots or stem-and-leaf plots P(B) represent discrete paired data on a scatterplot P(B) define income tax, payroll tax, sales tax, and property tax P(B) explain the difference between gross income and net income P(C) describe actions that might be taken to balance a budget when expenses exceed income P(C) balance a simple budget | | |
| D | | | tages and disadvantages of different methods of payment, including check, credit card, debit card, and electronic payments for keeping and using financial records | | |
| # Items | 50 (3 Griddable) | 30-33 questions from Readiness Standards | 17-20 questions from Supporting Standards | | |