**Virginia Standards of Learning Assessment**

**Grade 3 Mathematics Performance Level Descriptors**

| **Fail/Below Basic** | **Fail/Basic** | **Pass/Proficient** | **Pass/Advanced** |
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| A student performing at this level should be able to:  *Reporting Category 1: Number and Number Sense*   * write and represent six-digit whole numbers with models * read and write four-digit whole numbers * identify a number greater than, less than, or equal to a whole number * identify fractions using models   *Reporting Category 2: Computation and Estimation*   * identify related multiplication and division facts * recall multiplication facts for 0 and 1 * recognize multiplication models * add and subtract two three-digit whole numbers without regrouping * add fractions using models   *Reporting Category 3: Measurement and Geometry*   * identify values of coins and bills * count sets of coins and bills up to $2 * identify words representing units of measure * measure length to nearest inch * identify hour/minute hands on a clock * tell time to nearest hour * identify number of days in one week and number of months in one year * name a polygon with 3, 4, or 5 sides * identify congruent concrete models of geometric figures   *Reporting Category 4: Probability, Statistics, Patterns, Functions, and Algebra*   * identify an outcome given a pictorial representation of an event with up to four possible outcomes * identify bar graphs/pictographs * collect data to answer a question * recognize repeating patterns using models * identify symbols (= and ≠) used to represent mathematical relationships | A student performing at this level should be able to:  *Reporting Category 1: Number and Number Sense*   * read and write six-digit whole numbers * compare whole numbers using words * round whole numbers to greatest place value * identify and name fractions using models   *Reporting Category 2: Computation and Estimation*   * complete related multiplication and division facts * recall some multiplication facts * identify multiplication and division facts represented by models * identify models representing the sum and difference of two whole numbers * add and subtract two whole numbers without regrouping * compare the sum and difference of fractions with like denominators using models   *Reporting Category 3: Measurement and Geometry*   * count sets of coins and bills * measure length to nearest ½-inch * count squares to determine area * tell time to nearest five minutes * identify number of minutes in an hour, hours in a day, and months in a year * read temperature to nearest degree on a thermometer * identify lines and line segments * name polygons * identify congruent and noncongruent figures (same orientation)   *Reporting Category 4: Probability, Statistics, Patterns, Functions, and Algebra*   * identify probabilities with impossible and certain events * collect, organize, and read data represented in graphs * recognize and describe repeating patterns * identify number sentences representing equivalent relationships | A student performing at this level should be able to:  *Reporting Category 1: Number and Number Sense*   * interpret place value for six-digit whole numbers * round and compare whole numbers * model, name, and compare fractions and mixed numbers   *Reporting Category 2: Computation and Estimation*   * add, subtract, multiply, and divide whole numbers to solve single-step problems * estimate, add, and subtract whole numbers to solve multistep problems * represent multiplication and division facts using models * recall multiplication facts (0,1,2,5,10) * add and subtract proper fractions with like denominators (up to 12) to solve problems   *Reporting Category 3: Measurement and Geometry*   * compare values of sets of coins and bills * make change from $5 or less * measure length, perimeter, and liquid volume * find the area of a figure * tell time to nearest minute * find equivalent periods of time and elapsed time in one-hour increments * read temperature to nearest degree, with scale increments of one or two degrees * identify points, rays, angles, lines, and line segments * name, combine, and subdivide polygons * identify congruent and noncongruent figures   *Reporting Category 4: Probability, Statistics, Patterns, Functions, and Algebra*   * identify outcomes and likelihood of an event * construct and interpret bar graphs and pictographs * describe and extend patterns * represent equivalent and non-equivalent relationships with number sentences | A student performing at this level should be able to:  *Reporting Category 1: Number and Number Sense*   * describe place value relationships * create number sentences comparing whole numbers or fractions and mixed numbers * use models to represent fractions and mixed numbers * relate improper fractions to mixed numbers   *Reporting Category 2: Computation and Estimation*   * apply related multiplication and division facts to solve practical problems * recall, represent, and apply multiplication and division facts * create and solve multistep practical problems using sums and differences of whole numbers * generalize rules to add and subtract fractions (like denominators)   *Reporting Category 3: Measurement and Geometry*   * compute change from $5 * determine appropriate units of measure * solve problems involving length, liquid volume, perimeter, and area * determine elapsed time and equivalent periods of time to solve problems * interpret temperature models * combine and subdivide polygons and describe the results * describe representations of geometric figures   *Reporting Category 4: Probability, Statistics, Patterns, Functions, and Algebra*   * analyze outcomes and make predictions for probability scenarios * design data investigations, analyze graphs, and formulate questions related to graphs * create and extend patterns * create equations to represent equivalent mathematical relationships |