ISTEP+: Grade 3 Mathematics
Blueprint Beginning Spring 2016

The grade 3 mathematics assessment is divided into five categories for reporting student achievement. Age-appropriate concepts are assessed within each category.

Reporting Category	Description	Percent Range*
Number Sense	Questions may include understanding equivalent forms of whole numbers up to 1,000, comparing two numbers up to 1,000, understanding basic fractions and representing those fractions on a number line, understanding and generating equivalent fractions, comparing the size of two fractions with either the same numerator or denominator, and rounding 2 or 3-digit whole numbers to the nearest 10 or 100.	9-19%
Computation	Questions may include adding and subtracting within 1,000 fluently, multiplying division facts from 0 to 10 fluently, multiplying and dividing within 100, representing the concept of multiplication and division of whole numbers in multiple ways, and interpreting whole number quotients of whole numbers.	9-19%
Algebraic Thinking and Data Analysis	Questions may include solving real-world addition and subtraction problems within 1,000, solving real-world multiplication problems within 100, solving two-step real-world problems using all four operations, interpreting multiplication equations as equal groups, determining an unknown whole number in multiplication and division equations, interpreting rules for number patterns using multiplication, creating scaled graphs and tables, solving one and two-step problems based on present ed data, making predictions based on presented data, generating measurement data by measuring the lengths of objects with rulers, and plotting the measurement data on line plots using appropriate units.	23-33%
Geometry and Measurement	Questions may include identifying and describing basic, three-dimensional objects, understanding and categorizing two-dimensional objects based on attributes, identifying and drawing points, lines, and line segments, portioning shapes into equal areas, estimating and measuring mass and volume, solving one-step real-world problems involving mass and volume, choosing the appropriate unit and tools to measure objects, solving real-world problems involving time in minutes and money in dollars and cents, understanding and determining the area of rectangles, and finding the perimeter of polygons.	25-35%
Mathematical Process	Questions may include making sense of problems an persevering in solving them, reasoning abstractly and quantitatively, constructing viable arguments and critiquing the reasoning of others, modeling, using appropriate tool strategically, attending to precision, and making use of structure.	9-19%

* This range represents the approximate emphasis for each reporting category on the assessment.