

**ISTEP+: Grade 3 Mathematics
2014-15 Blueprint**

Reporting Category	Description	Percent Range*
Number Sense	<p>Strand 1: 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.</p>	9-19%
Computation	<p>Strand 2: 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.</p>	9-19%
Algebraic Thinking Data Analysis	<p>Strand 3: Algebraic Thinking 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; and interpreting rules for number patterns using multiplication.</p> <p>Strand 6: Data Analysis Questions may include creating scaled graphs and tables; solving one and two-step problems based on presented 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.</p>	23-33%
Geometry Measurement	<p>Strand 4: Geometry 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; and portioning shapes into equal areas.</p> <p>Strand 5: Measurement Questions may include 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.</p>	25-35%
Mathematical Process	<p>Strand 7: Mathematical Process Questions may include making sense of problems and 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.</p>	9-19%

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