

Prentice Hall: Connected Mathematics* '1998
 Correlated to
**Massachusetts Mathematics Curriculum Framework Learning Standards
 (Grade 7)**

CURRICULUM FRAMEWORK LEARNING STANDARDS	PAGE(S) WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
STRAND 1: NUMBER SENSE	
Number and Number Relationships	
<p>¥ Represent and use equivalent forms of numbers, including integers, fractions, decimals, percents, exponents, and scientific notation.</p>	<p><u>Comparing and Scaling</u> Investigation 1: Making Comparisons, 5-15 Investigation 2: Comparing by Finding Percents, 16-25 Investigation 3: Comparing by Using Ratios, 26-36 Investigation 4: Comparing by Finding Rates, 37-51 Investigation 5: Estimating Populations and Population Densities, 52-64</p> <p><u>Accentuate the Negative</u> Investigation 1: Extending the Number Line, 5-17</p> <p><u>What Do You Expect?</u> Investigation 2: Analyzing Number-Cube Games, 22-31 Investigation 3: Probability and Area, 32-40</p> <p><u>Data Around Us</u> Investigation 2: Measuring Oil Spills, 12-22</p>

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CURRICULUM FRAMEWORK LEARNING STANDARDS	PAGE(S) WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
<p>¥ Apply ratios, proportions, and percents.</p>	<p><u>Comparing and Scaling</u> Investigation 1: Making Comparisons, 5-15 Investigation 2: Comparing by Finding Percents, 16-25 Investigation 3: Comparing by Using Ratios, 26-36 Investigation 4: Comparing by Finding Rates, 37-51 Investigation 5: Estimating Populations and Population Densities, 52-64 Investigation 6: Choosing Strategies, 65-81</p> <p><u>What Do You Expect?</u> Investigation 1: Evaluating Games of Chance, 5-21</p> <p><u>Data Around Us</u> Investigation 3: Comparing Large Numbers, 23-37</p>
<p>¥ Investigate and describe the relationships among fractions, decimals, and percents.</p>	<p><u>Comparing and Scaling</u> Investigation 1: Making Comparisons, 5-15 Investigation 2: Comparing by Finding Percents, 16-25 Investigation 3: Comparing by Using Ratios, 26-36 Investigation 4: Comparing by Finding Rates, 37-51 Investigation 5: Estimating Populations and Population Densities, 52-64 Investigation 6: Choosing Strategies, 65-81</p> <p><u>What Do You Expect?</u> Investigation 1: Evaluating Games of Chance, 5-21</p> <p><u>Data Around Us</u> Investigation 3: Comparing Large Numbers, 23-37</p>

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<p>¥ Represent numerical relationships in one- and two-dimensional graphs.</p>	<p><u>Variables and Patterns</u> Investigation 1: Variables and Coordinate Graphs, 5-17 Investigation 2: Graphing Change, 18-35 Investigation 3: Analyzing Graphs and Tables, 36-48 Investigation 4: Patterns and Rules, 49-60 Investigation 5: Using a Graphing Calculator, 61-68</p> <p><u>Accentuate the Negative</u> Investigation 1: Extending the Number Line, 5-17 Investigation 5: Coordinate Grids, 67-82</p> <p><u>Moving Straight Ahead</u> Investigation 3: Exploring Lines with a Graphing Calculator, 35-52 Investigation 4: Solving Equations, 53-63 Investigation 5: Exploring Slope, 64-79 Investigation 6: Writing an Equation for a Line, 80-91</p>
Number Systems and Number Theory	
<p>¥ Explain the need for numbers other than whole numbers.</p>	<p><u>Comparing and Scaling</u> Investigation 1: Making Comparisons, 5-15</p> <p><u>Accentuate the Negative</u> Investigation 1: Extending the Number Line, 5-17 Investigation 5: Coordinate Grids, 67-82</p> <p><u>Data Around Us</u> Investigation 1: Interpreting Disaster Reports, 5-11 Investigation 2: Measuring Oil Spills, 12-22 Investigation 3: Comparing Large Numbers, 23-37 Investigation 4: How Many is a Million?, 38-50</p>

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<p>¥ Know and use order relations for whole numbers, fractions, decimals, integers, and rational numbers.</p>	<p><u>Comparing and Scaling</u> Investigation 1: Making Comparisons, 5-15 Investigation 2: Comparing by Finding Percents, 16-25 Investigation 3: Comparing by Using Ratios, 26-36 Investigation 4: Comparing by Finding Rates, 37-51</p> <p><u>Accentuate the Negative</u> Investigation 1: Extending the Number Line, 5-17</p> <p><u>Data Around Us</u> Investigation 3: Comparing Large Numbers, 23-37</p>
<p>¥ Use operations involving fractions, decimals, integers, and rational numbers.</p>	<p><u>Comparing and Scaling</u> Investigation 1: Making Comparisons, 5-15</p> <p><u>Accentuate the Negative</u> Investigation 2: Adding Integers, 18-33 Investigation 3: Subtracting Integers, 34-52 Investigation 4: Multiplying and Dividing Integers, 53-66</p> <p><u>Data Around Us</u> Investigation 2: Measuring Oil Spills, 12-22</p>

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<p>¥ Demonstrate how basic operations are related to one another.</p>	<p><u>Comparing and Scaling</u> Investigation 4: Comparing by Finding Rates, 37-51</p> <p><u>Accentuate the Negative</u> Investigation 2: Adding Integers, 18-33 Investigation 3: Subtracting Integers, 34-52 Investigation 4: Multiplying and Dividing Integers, 53-66</p> <p><u>Moving Straight Ahead</u> Investigation 2: Walking Rates, 15-34 Investigation 4: Solving Equations, 53-63</p>
<p>¥ Create and apply number theory concepts, including prime numbers, factors, and multiples.</p>	<p><u>Stretching and Shrinking</u> Investigation 1: Enlarging Figures, 5-13 Investigation 6: Stretching and Shrinking with a Computer, 75-84</p> <p><u>Comparing and Scaling</u> Investigation 1: Making Comparisons, 5-15 Investigation 2: Comparing by Finding Percents, 16-25 Investigation 3: Comparing by Using Ratios, 26-36 Investigation 4: Comparing by Finding Rates, 37-51</p> <p><u>Moving Straight Ahead</u> Investigation 5: Exploring Slope, 64-79 Investigation 6: Writing an Equation for a Line, 80-91</p>

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Computation and Estimation	
<p>‡ Compute with whole numbers, fractions, decimals, integers, and rational numbers.</p>	<p><u>Comparing and Scaling</u> Investigation 1: Making Comparisons, 5-15</p> <p><u>Accentuate the Negative</u> Investigation 2: Adding Integers, 18-33 Investigation 3: Subtracting Integers, 34-52 Investigation 4: Multiplying and Dividing Integers, 53-66</p> <p><u>Data Around Us</u> Investigation 2: Measuring Oil Spills, 12-22</p>
<p>‡ Develop, analyze, and explain procedures for computing, estimating, and solving proportions.</p>	<p><u>Comparing and Scaling</u> Investigation 1: Making Comparisons, 5-15 Investigation 5: Estimating Populations and Population Densities, 52-64</p> <p><u>Accentuate the Negative</u> Investigation 2: Adding Integers, 18-33 Investigation 3: Subtracting Integers, 34-52 Investigation 4: Multiplying and Dividing Integers, 53-66</p> <p><u>Data Around Us</u> Investigation 2: Measuring Oil Spills, 12-22</p>

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<p>¥ Select and use an appropriate method for computing from among mental math, estimation, paper-and-pencil, calculator, and computer methods.</p>	<p><u>Comparing and Scaling</u> Investigation 1: Making Comparisons, 5-15 Investigation 5: Estimating Populations and Population Densities, 52-64</p> <p><u>Moving Straight Ahead</u> Investigation 2: Walking Rates, 15-34 Investigation 3: Exploring Lines with a Graphing Calculator, 35-52 Investigation 4: Solving Equations, 53-63</p> <p><u>What Do You Expect?</u> Investigation 4: Analyzing Two-Stage Games, 41-49</p>
<p>¥ Use computation, estimation, and proportions to solve problems.</p>	<p><u>Stretching and Shrinking</u> Investigation 1: Enlarging Figures, 5-13 Investigation 4: Using Similarity, 41-58 Investigation 5: Similar Triangles, 59-74</p> <p><u>Comparing and Scaling</u> Investigation 3: Comparing by Using Ratios, 26-36 Investigation 4: Comparing by Finding Rates, 37-51 Investigation 5: Estimating Populations and Population Densities, 52-64 Investigation 6: Choosing Strategies, 65-81</p> <p><u>Moving Straight Ahead</u> Investigation 5: Exploring Slope, 64-79</p> <p><u>Filling and Wrapping</u> Investigation 6: Scaling Boxes, 57-67</p> <p><u>Data Around Us</u> Investigation 4: How Many is a Million?, 38-50</p>

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<p>‡ Estimate to check the reasonableness of results of computations and problems involving rational numbers.</p>	<p><u>Comparing and Scaling</u> Investigation 5: Estimating Populations and Population Densities, 52-64 Investigation 6: Choosing Strategies, 65-81</p> <p><u>Accentuate the Negative</u> Investigation 2: Adding Integers, 18-33 Investigation 3: Subtracting Integers, 34-52 Investigation 4: Multiplying and Dividing Integers, 53-66</p> <p><u>Data Around Us</u> Investigation 1: Interpreting Disaster Reports, 5-11 Investigation 2: Measuring Oil Spills, 12-22</p>

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STRAND 2: PATTERNS, RELATIONS, AND FUNCTIONS	
Patterns and Functions	
<p>‡ Describe, extend, analyze, and create a wide variety of patterns.</p>	<p><u>Variables and Patterns</u> Investigation 1: Variables and Coordinate Graphs, 5-17 Investigation 2: Graphing Change, 18-35 Investigation 3: Analyzing Graphs and Tables, 36-48 Investigation 4: Patterns and Rules, 49-60 Investigation 5: Using a Graphing Calculator, 61-68</p> <p><u>Stretching and Shrinking</u> Investigation 3: Patterns of Similar Figures, 28-40</p> <p><u>Moving Straight Ahead</u> Investigation 1: Predicting from Patterns, 5-14 Investigation 2: Walking Rates, 15-34 Investigation 3: Exploring Lines with a Graphing Calculator, 35-52 Investigation 4: Solving Equations, 53-63 Investigation 5: Exploring Slope, 64-79 Investigation 6: Writing an Equation for a Line, 80-91</p>

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<p>¥ Describe and represent relationships with models, tables, graphs, and rules, using sentences and algebraic expressions.</p>	<p><u>Variables and Patterns</u> Investigation 1: Variables and Coordinate Graphs, 5-17 Investigation 2: Graphing Change, 18-35 Investigation 3: Analyzing Graphs and Tables, 36-48 Investigation 4: Patterns and Rules, 49-60 Investigation 5: Using a Graphing Calculator, 61-68</p> <p><u>Stretching and Shrinking</u> Investigation 3: Patterns of Similar Figures, 28-40</p> <p><u>Comparing and Scaling</u> Investigation 4: Comparing by Finding Rates, 37-51 Investigation 5: Estimating Populations and Population Densities, 52-64</p> <p><u>Moving Straight Ahead</u> Investigation 1: Predicting from Patterns, 5-14 Investigation 2: Walking Rates, 15-34 Investigation 3: Exploring Lines with a Graphing Calculator, 35-52 Investigation 4: Solving Equations, 53-63 Investigation 5: Exploring Slope, 64-79 Investigation 6: Writing an Equation for a Line, 80-91</p>

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<p>¥ Analyze functional relationships to explain how a change in one quantity results in a change in another.</p>	<p><u>Variables and Patterns</u> Investigation 1: Variables and Coordinate Graphs, 5-17 Investigation 2: Graphing Change, 18-35 Investigation 3: Analyzing Graphs and Tables, 36-48 Investigation 4: Patterns and Rules, 49-60 Investigation 5: Using a Graphing Calculator, 61-68</p> <p><u>Moving Straight Ahead</u> Investigation 1: Predicting from Patterns, 5-14 Investigation 2: Walking Rates, 15-34 Investigation 3: Exploring Lines with a Graphing Calculator, 35-52 Investigation 4: Solving Equations, 53-63 Investigation 5: Exploring Slope, 64-79 Investigation 6: Writing an Equation for a Line, 80-91</p>
<p>¥ Use patterns and functions to represent and solve problems.</p>	<p><u>Variables and Patterns</u> Investigation 1: Variables and Coordinate Graphs, 5-17 Investigation 2: Graphing Change, 18-35 Investigation 3: Analyzing Graphs and Tables, 36-48 Investigation 4: Patterns and Rules, 49-60 Investigation 5: Using a Graphing Calculator, 61-68</p> <p><u>Moving Straight Ahead</u> Investigation 1: Predicting from Patterns, 5-14 Investigation 2: Walking Rates, 15-34 Investigation 3: Exploring Lines with a Graphing Calculator, 35-52 Investigation 4: Solving Equations, 53-63 Investigation 5: Exploring Slope, 64-79 Investigation 6: Writing an Equation for a Line, 80-91</p>

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Algebra	
<p>¥ Understand and apply the concepts of variable, expression, and equation.</p>	<p><u>Variables and Patterns</u> Investigation 1: Variables and Coordinate Graphs, 5-17 Investigation 2: Graphing Change, 18-35 Investigation 3: Analyzing Graphs and Tables, 36-48 Investigation 4: Patterns and Rules, 49-60 Investigation 5: Using a Graphing Calculator, 61-68</p> <p><u>Moving Straight Ahead</u> Investigation 1: Predicting from Patterns, 5-14 Investigation 2: Walking Rates, 15-34 Investigation 3: Exploring Lines with a Graphing Calculator, 35-52 Investigation 4: Solving Equations, 53-63 Investigation 5: Exploring Slope, 64-79 Investigation 6: Writing an Equation for a Line, 80-91</p>

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<p>¥ Represent situations and number patterns with tables, graphs, verbal rules, and equations and explore the interrelationships of these representations.</p>	<p><u>Variables and Patterns</u> Investigation 1: Variables and Coordinate Graphs, 5-17 Investigation 2: Graphing Change, 18-35 Investigation 3: Analyzing Graphs and Tables, 36-48 Investigation 4: Patterns and Rules, 49-60 Investigation 5: Using a Graphing Calculator, 61-68</p> <p><u>Moving Straight Ahead</u> Investigation 1: Predicting from Patterns, 5-14 Investigation 2: Walking Rates, 15-34 Investigation 3: Exploring Lines with a Graphing Calculator, 35-52 Investigation 4: Solving Equations, 53-63 Investigation 5: Exploring Slope, 64-79 Investigation 6: Writing an Equation for a Line, 80-91</p>
<p>¥ Analyze tables and graphs to identify properties and relationships.</p>	<p><u>Variables and Patterns</u> Investigation 1: Variables and Coordinate Graphs, 5-17 Investigation 2: Graphing Change, 18-35 Investigation 3: Analyzing Graphs and Tables, 36-48 Investigation 4: Patterns and Rules, 49-60 Investigation 5: Using a Graphing Calculator, 61-68</p> <p><u>Moving Straight Ahead</u> Investigation 1: Predicting from Patterns, 5-14 Investigation 2: Walking Rates, 15-34 Investigation 3: Exploring Lines with a Graphing Calculator, 35-52 Investigation 4: Solving Equations, 53-63 Investigation 5: Exploring Slope, 64-79 Investigation 6: Writing an Equation for a Line, 80-91</p>

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<p>¥ Demonstrate an ability to solve linear equations using concrete, informal, and formal methods.</p>	<p><u>Moving Straight Ahead</u> Investigation 4: Solving Equations, 53-63 Investigation 5: Exploring Slope, 64-79 Investigation 6: Writing an Equation for a Line, 80-91</p>
<p>¥ Describe the strategies used to explore inequalities and nonlinear equations.</p>	<p><u>Variables and Patterns</u> Investigation 1: Variables and Coordinate Graphs, 5-17 Investigation 2: Graphing Change, 18-35 Investigation 3: Analyzing Graphs and Tables, 36-48 Investigation 4: Patterns and Rules, 49-60 Investigation 5: Using a Graphing Calculator, 61-68</p>
<p>¥ Apply algebraic methods to solve a variety of real-world and theoretical problems.</p>	<p><u>Variables and Patterns</u> Investigation 1: Variables and Coordinate Graphs, 5-17 Investigation 2: Graphing Change, 18-35 Investigation 3: Analyzing Graphs and Tables, 36-48 Investigation 4: Patterns and Rules, 49-60 Investigation 5: Using a Graphing Calculator, 61-68</p> <p><u>Moving Straight Ahead</u> Investigation 1: Predicting from Patterns, 5-14 Investigation 2: Walking Rates, 15-34 Investigation 3: Exploring Lines with a Graphing Calculator, 35-52 Investigation 4: Solving Equations, 53-63 Investigation 5: Exploring Slope, 64-79 Investigation 6: Writing an Equation for a Line, 80-91</p>

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<p>¥ Construct expressions or equations that model problems.</p>	<p><u>Variables and Patterns</u> Investigation 1: Variables and Coordinate Graphs, 5-17 Investigation 2: Graphing Change, 18-35 Investigation 3: Analyzing Graphs and Tables, 36-48 Investigation 4: Patterns and Rules, 49-60 Investigation 5: Using a Graphing Calculator, 61-68</p> <p><u>Moving Straight Ahead</u> Investigation 1: Predicting from Patterns, 5-14 Investigation 2: Walking Rates, 15-34 Investigation 3: Exploring Lines with a Graphing Calculator, 35-52 Investigation 4: Solving Equations, 53-63 Investigation 5: Exploring Slope, 64-79 Investigation 6: Writing an Equation for a Line, 80-91</p>
<p>¥ Explore and describe a variety of ways to solve equations, including hand-on activities, trial and error, and numerical analysis.</p>	<p><u>Moving Straight Ahead</u> Investigation 4: Solving Equations, 53-63 Investigation 5: Exploring Slope, 64-79 Investigation 6: Writing an Equation for a Line, 80-91</p>
<p>¥ Know and apply algebraic procedures for solving equations and inequalities.</p>	<p><u>Moving Straight Ahead</u> Investigation 4: Solving Equations, 53-63 Investigation 5: Exploring Slope, 64-79 Investigation 6: Writing an Equation for a Line, 80-91</p>

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STRAND 3: GEOMETRY AND MEASUREMENT	
Geometry	
<p>¥ Identify, describe, compare, and classify geometric figures.</p>	<p><u>Stretching and Shrinking</u> Investigation 1: Enlarging Figures, 5-13 Investigation 3: Patterns of Similar Figures, 28-40 Investigation 6: Stretching and Shrinking with a Computer, 75-84</p> <p><u>Filling and Wrapping</u> Investigation 3: Finding Volumes of Boxes, 24-36 Investigation 4: Cylinders, 37-45 Investigation 5: Cones and Spheres, 46-56</p>
<p>¥ Explore and describe the properties of points, lines, and planes.</p>	<p><u>Variables and Patterns</u> Investigation 1: Variables and Coordinate Graphs, 5-17</p> <p><u>Moving Straight Ahead</u> Investigation 3: Exploring Lines with a Graphing Calculator, 35-52</p>

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¥ Visualize and draw geometric figures.	<p><u>Stretching and Shrinking</u> Investigation 1: Enlarging Figures, 5-13 Investigation 2: Similar Figures, 14-27 Investigation 3: Patterns of Similar Figures, 28-40 Investigation 4: Using Similarity, 41-58 Investigation 5: Similar Triangles, 59-74 Investigation 6: Stretching and Shrinking with a Computer, 75-84</p> <p><u>Filling and Wrapping</u> Investigation 1: Building Boxes, 5-14 Investigation 2: Designing Packages, 15-23 Investigation 3: Finding Volumes of Boxes, 24-36 Investigation 4: Cylinders, 37-45 Investigation 5: Cones and Spheres, 46-56 Investigation 6: Scaling Boxes, 57-67 Investigation 7: Finding Volumes of Irregular Objects, 68-72</p>
¥ Explore and describe transformations of geometric figures.	<p><u>Stretching and Shrinking</u> Investigation 1: Enlarging Figures, 5-13 Investigation 2: Similar Figures, 14-27 Investigation 3: Patterns of Similar Figures, 28-40 Investigation 4: Using Similarity, 41-58 Investigation 5: Similar Triangles, 59-74 Investigation 6: Stretching and Shrinking with a Computer, 75-84</p>

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<p>¥ Represent and solve problems, using geometric models.</p>	<p><u>Stretching and Shrinking</u> Investigation 1: Enlarging Figures, 5-13 Investigation 2: Similar Figures, 14-27 Investigation 3: Patterns of Similar Figures, 28-40 Investigation 4: Using Similarity, 41-58 Investigation 5: Similar Triangles, 59-74 Investigation 6: Stretching and Shrinking with a Computer, 75-84</p> <p><u>Filling and Wrapping</u> Investigation 1: Building Boxes, 5-14 Investigation 2: Designing Packages, 15-23 Investigation 3: Finding Volumes of Boxes, 24-36 Investigation 4: Cylinders, 37-45 Investigation 5: Cones and Spheres, 46-56 Investigation 6: Scaling Boxes, 57-67 Investigation 7: Finding Volumes of Irregular Objects, 68-72</p> <p><u>Moving Straight Ahead</u> Investigation 5: Exploring Slope, 64-79</p>

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¥ Apply geometric properties and relationships.	<u>Stretching and Shrinking</u> Investigation 3: Patterns of Similar Figures, 28-40 Investigation 4: Using Similarity, 41-58 Investigation 5: Similar Triangles, 59-74 Investigation 6: Stretching and Shrinking with a Computer, 75-84 <u>Filling and Wrapping</u> Investigation 1: Building Boxes, 5-14 Investigation 2: Designing Packages, 15-23 Investigation 3: Finding Volumes of Boxes, 24-36 Investigation 4: Cylinders, 37-45 Investigation 5: Cones and Spheres, 46-56 Investigation 6: Scaling Boxes, 57-67 Investigation 7: Finding Volumes of Irregular Objects, 68-72
¥ Develop and explain the concept of pi.	<u>Variables and Patterns</u> Investigation 4: Patterns and Rules, 49-60 <u>Stretching and Shrinking</u> Investigation 1: Enlarging Figures, 5-13 <u>Filling and Wrapping</u> Investigation 4: Cylinders, 37-45 Investigation 5: Cones and Spheres, 46-56
¥ Develop and explain the concept of the pythagorean theorem.	<u>Stretching and Shrinking</u> Investigation 5: Similar Triangles, 59-74 see Grade 8 unit: <u>Looking for Pythagoras</u>

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Measurement	
<p>¥ Select appropriate units and tools to measure to the degree of accuracy required in a particular situation.</p>	<p><u>Variables and Patterns</u> Investigation 1: Variables and Coordinate Graphs, 5-17 Investigation 2: Graphing Change, 18-35 Investigation 3: Analyzing Graphs and Tables, 36-48 Investigation 4: Patterns and Rules, 49-60 Investigation 5: Using a Graphing Calculator, 61-68</p> <p><u>Stretching and Shrinking</u> Investigation 5: Similar Triangles, 59-74</p> <p><u>Comparing and Scaling</u> Investigation 5: Estimating Populations and Population Densities, 52-64</p> <p><u>Moving Straight Ahead</u> Investigation 2: Walking Rates, 15-34 Investigation 4: Solving Equations, 53-63 Investigation 6: Writing an Equation for a Line, 80-91</p> <p><u>Filling and Wrapping</u> Investigation 1: Building Boxes, 5-14 Investigation 2: Designing Packages, 15-23 Investigation 3: Finding Volumes of Boxes, 24-36 Investigation 4: Cylinders, 37-45 Investigation 5: Cones and Spheres, 46-56 Investigation 6: Scaling Boxes, 57-67 Investigation 7: Finding Volumes of Irregular Objects, 68-72</p> <p><u>Data Around Us</u> Investigation 2: Measuring Oil Spills, 12-22</p>

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<p>¥ Describe the meaning of perimeter, area, volume, angle measure, capacity, density, weight, and mass.</p>	<p><u>Variables and Patterns</u> Investigation 1: Variables and Coordinate Graphs, 5-17 Investigation 2: Graphing Change, 18-35 Investigation 4: Patterns and Rules, 49-60</p> <p><u>Stretching and Shrinking</u> Investigation 1: Enlarging Figures, 5-13 Investigation 6: Stretching and Shrinking with a Computer, 75-84</p> <p><u>Comparing and Scaling</u> Investigation 2: Comparing by Finding Percents, 16-25 Investigation 4: Comparing by Finding Rates, 37-51</p> <p><u>Accentuate the Negative</u> Investigation 5: Coordinate Grids, 67-82</p> <p><u>Moving Straight Ahead</u> Investigation 2: Walking Rates, 15-34 Investigation 3: Exploring Lines with a Graphing Calculator, 35-52</p> <p><u>Filling and Wrapping</u> Investigation 1: Building Boxes, 5-14 Investigation 2: Designing Packages, 15-23 Investigation 3: Finding Volumes of Boxes, 24-36 Investigation 4: Cylinders, 37-45 Investigation 5: Cones and Spheres, 46-56 Investigation 6: Scaling Boxes, 57-67 Investigation 7: Finding Volumes of Irregular Objects, 68-72</p> <p><u>Data Around Us</u> Investigation 1: Interpreting Disaster Reports, 5-11 Investigation 2: Measuring Oil Spills, 12-22 Investigation 3: Comparing Large Numbers, 23-37 Investigation 4: How Many is a Million?, 38-50 Investigation 5: Every Litter Bit Hurts, 51-60 Investigation 6: On an Average Day, 61-69</p>

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<p>‡ Develop and describe the concepts of rates and other derived and indirect measurements.</p>	<p><u>Stretching and Shrinking</u> Investigation 1: Enlarging Figures, 5-13 Investigation 4: Using Similarity, 41-58 Investigation 5: Similar Triangles, 59-74</p> <p><u>Comparing and Scaling</u> Investigation 4: Comparing by Finding Rates, 37-51 Investigation 5: Estimating Populations and Population Densities, 52-64 Investigation 6: Choosing Strategies, 65-81</p> <p><u>Moving Straight Ahead</u> Investigation 5: Exploring Slope, 64-79</p>

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<p>¥ Develop and apply formulas and procedures for determining measures to solve problems.</p>	<p><u>Variables and Patterns</u> Investigation 1: Variables and Coordinate Graphs, 5-17 Investigation 2: Graphing Change, 18-35 Investigation 3: Analyzing Graphs and Tables, 36-48 Investigation 4: Patterns and Rules, 49-60 Investigation 5: Using a Graphing Calculator, 61-68</p> <p><u>Stretching and Shrinking</u> Investigation 5: Similar Triangles, 59-74</p> <p><u>Comparing and Scaling</u> Investigation 5: Estimating Populations and Population Densities, 52-64</p> <p><u>Moving Straight Ahead</u> Investigation 2: Walking Rates, 15-34 Investigation 4: Solving Equations, 53-63 Investigation 6: Writing an Equation for a Line, 80-91</p> <p><u>Filling and Wrapping</u> Investigation 1: Building Boxes, 5-14 Investigation 2: Designing Packages, 15-23 Investigation 3: Finding Volumes of Boxes, 24-36 Investigation 4: Cylinders, 37-45 Investigation 5: Cones and Spheres, 46-56 Investigation 6: Scaling Boxes, 57-67</p> <p><u>Data Around Us</u> Investigation 2: Measuring Oil Spills, 12-22</p>

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STRAND 4: STATISTICS AND PROBABILITY	
Statistics	
‡ Collect, organize, and describe data systematically.	<u>Variables and Patterns</u> Investigation 1: Variables and Coordinate Graphs, 5-17 Investigation 2: Graphing Change, 18-35 <u>Comparing and Scaling</u> Investigation 1: Making Comparisons, 5-15 Investigation 2: Comparing by Finding Percents, 16-25 <u>Moving Straight Ahead</u> Investigation 1: Predicting from Patterns, 5-14 <u>What Do You Expect?</u> Investigation 1: Evaluating Games of Chance, 5-21

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¥ Construct, read, and interpret tables, charts, and graphs.	<p><u>Variables and Patterns</u> Investigation 1: Variables and Coordinate Graphs, 5-17 Investigation 2: Graphing Change, 18-35 Investigation 3: Analyzing Graphs and Tables, 36-48 Investigation 4: Patterns and Rules, 49-60 Investigation 5: Using a Graphing Calculator, 61-68</p> <p><u>Comparing and Scaling</u> Investigation 2: Comparing by Finding Percents, 16-25 Investigation 3: Comparing by Using Ratios, 26-36 Investigation 4: Comparing by Finding Rates, 37-51 Investigation 5: Estimating Populations and Population Densities, 52-64 Investigation 6: Choosing Strategies, 65-81</p> <p><u>Accentuate the Negative</u> Investigation 5: Coordinate Grids, 67-82</p> <p><u>Moving Straight Ahead</u> Investigation 1: Predicting from Patterns, 5-14 Investigation 2: Walking Rates, 15-34 Investigation 3: Exploring Lines with a Graphing Calculator, 35-52 Investigation 4: Solving Equations, 53-63 Investigation 5: Exploring Slope, 64-79 Investigation 6: Writing an Equation for a Line, 80-91</p> <p><u>What Do You Expect?</u> Investigation 7: Analyzing Sequences of Outcomes, 69-78</p> <p><u>Data Around Us</u> Investigation 1: Interpreting Disaster Reports, 5-11 Investigation 2: Measuring Oil Spills, 12-22 Investigation 3: Comparing Large Numbers, 23-37 Investigation 4: How Many is a Million?, 38-50 Investigation 5: Every Litter Bit Hurts, 51-60 Investigation 6: On an Average Day, 61-69</p>

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<p>¥ Make inferences and convincing arguments that are based on data analysis.</p>	<p><u>Variables and Patterns</u> Investigation 1: Variables and Coordinate Graphs, 5-17 Investigation 2: Graphing Change, 18-35 Investigation 3: Analyzing Graphs and Tables, 36-48 Investigation 4: Patterns and Rules, 49-60 Investigation 5: Using a Graphing Calculator, 61-68</p> <p><u>Stretching and Shrinking</u> Investigation 5: Similar Triangles, 59-74</p> <p><u>Comparing and Scaling</u> Investigation 1: Making Comparisons, 5-15 Investigation 2: Comparing by Finding Percents, 16-25 Investigation 5: Estimating Populations and Population Densities, 52-64</p> <p><u>Moving Straight Ahead</u> Investigation 1: Predicting from Patterns, 5-14 Investigation 6: Writing an Equation for a Line, 80-91</p> <p><u>What Do You Expect?</u> Investigation 1: Evaluating Games of Chance, 5-21</p> <p><u>Data Around Us</u> Investigation 1: Interpreting Disaster Reports, 5-11 Investigation 5: Every Litter Bit Hurts, 51-60</p>

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<p>¥ Evaluate arguments that are based on data analysis.</p>	<p><u>Variables and Patterns</u> Investigation 1: Variables and Coordinate Graphs, 5-17 Investigation 2: Graphing Change, 18-35 Investigation 3: Analyzing Graphs and Tables, 36-48 Investigation 4: Patterns and Rules, 49-60 Investigation 5: Using a Graphing Calculator, 61-68</p> <p><u>Stretching and Shrinking</u> Investigation 5: Similar Triangles, 59-74</p> <p><u>Comparing and Scaling</u> Investigation 1: Making Comparisons, 5-15 Investigation 2: Comparing by Finding Percents, 16-25 Investigation 5: Estimating Populations and Population Densities, 52-64</p> <p><u>Moving Straight Ahead</u> Investigation 1: Predicting from Patterns, 5-14 Investigation 6: Writing an Equation for a Line, 80-91</p> <p><u>What Do You Expect?</u> Investigation 1: Evaluating Games of Chance, 5-21</p> <p><u>Data Around Us</u> Investigation 1: Interpreting Disaster Reports, 5-11 Investigation 5: Every Litter Bit Hurts, 51-60</p>

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¥ Develop and explain why statistical methods are powerful aids for decision making.	<u>Variables and Patterns</u> Investigation 3: Analyzing Graphs and Tables, 36-48 <u>Data Around Us</u> Investigation 1: Interpreting Disaster Reports, 5-11 Investigation 2: Measuring Oil Spills, 12-22 Investigation 3: Comparing Large Numbers, 23-37 Investigation 4: How Many is a Million?, 38-50 Investigation 5: Every Litter Bit Hurts, 51-60 Investigation 6: On an Average Day, 61-69
Probability	
¥ Model situations by devising and carrying out experiments or simulations to determine probabilities.	<u>What Do You Expect?</u> Investigation 1: Evaluating Games of Chance, 5-21 Investigation 2: Analyzing Number-Cube Games, 22-31 Investigation 3: Probability and Area, 32-40 Investigation 4: Analyzing Two-Stage Games, 41-49 Investigation 5: Expected Value, 50-58 Investigation 6: Carnival Games, 59-68 Investigation 7: Analyzing Sequences of Outcomes, 69-78
¥ Construct a sample space to determine probabilities.	<u>What Do You Expect?</u> Investigation 1: Evaluating Games of Chance, 5-21 Investigation 4: Analyzing Two-Stage Games, 41-49 Investigation 5: Expected Value, 50-58 Investigation 6: Carnival Games, 59-68 Investigation 7: Analyzing Sequences of Outcomes, 69-78

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<p>¥ Describe the power of using a probability model by comparing experimental results with mathematical expectations.</p>	<p><u>What Do You Expect?</u> Investigation 1: Evaluating Games of Chance, 5-21 Investigation 2: Analyzing Number-Cube Games, 22-31 Investigation 3: Probability and Area, 32-40 Investigation 4: Analyzing Two-Stage Games, 41-49 Investigation 5: Expected Value, 50-58 Investigation 6: Carnival Games, 59-68 Investigation 7: Analyzing Sequences of Outcomes, 69-78</p>
<p>¥ Make predictions that are based on experimental or theoretical probabilities and determine their reasonableness.</p>	<p><u>What Do You Expect?</u> Investigation 1: Evaluating Games of Chance, 5-21 Investigation 2: Analyzing Number-Cube Games, 22-31 Investigation 3: Probability and Area, 32-40 Investigation 4: Analyzing Two-Stage Games, 41-49 Investigation 5: Expected Value, 50-58 Investigation 6: Carnival Games, 59-68 Investigation 7: Analyzing Sequences of Outcomes, 69-78</p>

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<p>¥ Develop and explain an appreciation for the pervasive use of probability in the real world.</p>	<p><u>Comparing and Scaling</u> Investigation 5: Estimating Populations and Population Densities, 52-64 Investigation 6: Choosing Strategies, 65-81</p> <p><u>What Do You Expect?</u> Investigation 1: Evaluating Games of Chance, 5-21 Investigation 2: Analyzing Number-Cube Games, 22-31 Investigation 3: Probability and Area, 32-40 Investigation 4: Analyzing Two-Stage Games, 41-49 Investigation 5: Expected Value, 50-58 Investigation 6: Carnival Games, 59-68 Investigation 7: Analyzing Sequences of Outcomes, 69-78</p> <p><u>Data Around Us</u> Investigation 3: Comparing Large Numbers, 23-37</p>
STRAND 1: NUMBER SENSE	
Number and Number Relationships	
<p>¥ Apply number sense to estimate and choose appropriate forms of numbers for various purposes. (sample question 1)</p>	<p><u>Data Around Us</u> Investigation 2: Measuring Oil Spills, 12-22</p>
<p>¥ Identify and use appropriate representations of numbers, e.g., Number lines. (sample question 2)</p>	<p><u>Comparing and Scaling</u> Investigation 5: Estimating Populations and Population Densities, 52-64</p> <p><u>Accentuate the Negative</u> Investigation 1: Extending the Number Line, 5-17</p> <p><u>Data Around Us</u> Investigation 2: Measuring Oil Spills, 12-22</p>

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<p>¥ Recognize and use equivalent forms of integers, fractions, decimals, percents, exponents, and scientific notation. (sample question 4)</p>	<p><u>Comparing and Scaling</u> Investigation 1: Making Comparisons, 5-15 Investigation 2: Comparing by Finding Percents, 16-25 Investigation 3: Comparing by Using Ratios, 26-36 Investigation 4: Comparing by Finding Rates, 37-51 Investigation 5: Estimating Populations and Population Densities, 52-64</p> <p><u>Accentuate the Negative</u> Investigation 1: Extending the Number Line, 5-17</p> <p><u>What Do You Expect?</u> Investigation 2: Analyzing Number-Cube Games, 22-31 Investigation 3: Probability and Area, 32-40</p> <p><u>Data Around Us</u> Investigation 2: Measuring Oil Spills, 12-22</p>
<p>¥ Use ratio, proportion, and percent to analyze a variety of problem-solving situations.(sample questions 3, 4)</p>	<p><u>Comparing and Scaling</u> Investigation 1: Making Comparisons, 5-15 Investigation 2: Comparing by Finding Percents, 16-25 Investigation 3: Comparing by Using Ratios, 26-36 Investigation 4: Comparing by Finding Rates, 37-51 Investigation 5: Estimating Populations and Population Densities, 52-64</p>
Number Systems and Number Theory	
<p>¥ Determine the effect of operations on different types of numbers, e.g., The sum of two negative numbers is less than either addend. (sample question 9)</p>	<p><u>Accentuate the Negative</u> Investigation 2: Adding Integers, 18-33 Investigation 3: Subtracting Integers, 34-52 Investigation 4: Multiplying and Dividing Integers, 53-66</p>

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¥ Use relationships among operations, e.g., Use the fact that multiplying a number by $\frac{1}{3}$ is the same as dividing it by 3. (sample question 7)	<u>Accentuate the Negative</u> Investigation 2: Adding Integers, 18-33 Investigation 3: Subtracting Integers, 34-52 Investigation 4: Multiplying and Dividing Integers, 53-66
¥ Solve problems involving the ordering of whole numbers, fractions, decimals, and integers, e.g., Decide which item would be next largest within a set of items that are graduated by fractions of an inch. (sample question 5)	<u>Comparing and Scaling</u> Investigation 1: Making Comparisons, 5-15 <u>Accentuate the Negative</u> Investigation 1: Extending the Number Line, 5-17 <u>Data Around Us</u> Investigation 3: Comparing Large Numbers, 23-37
¥ Factor numbers into component parts, e.g., Prime factorizations. (sample question 8)	<u>Stretching and Shrinking</u> Investigation 1: Enlarging Figures, 5-13 <u>Comparing and Scaling</u> Investigation 4: Comparing by Finding Rates, 37-51 <u>Moving Straight Ahead</u> Investigation 5: Exploring Slope, 64-79

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¥ Analyze relationships among numbers, e.g., Relationships involving factors, multiples, and divisibility. (samples questions 6, 8)	<u>Stretching and Shrinking</u> Investigation 1: Enlarging Figures, 5-13 <u>Comparing and Scaling</u> Investigation 4: Comparing by Finding Rates, 37-51 <u>Moving Straight Ahead</u> Investigation 5: Exploring Slope, 64-79
Computation and Estimation (substrand)	
¥ Compute with whole numbers, fractions, decimals, integers, rational numbers, and exponents. (sample questions 10, 12, 13, 14, 15, 16, 17)	<u>Comparing and Scaling</u> Investigation 1: Making Comparisons, 5-15 <u>Accentuate the Negative</u> Investigation 2: Adding Integers, 18-33 Investigation 3: Subtracting Integers, 34-52 Investigation 4: Multiplying and Dividing Integers, 53-66 <u>Data Around Us</u> Investigation 2: Measuring Oil Spills, 12-22
¥ Use efficient strategies to estimate sums, differences, products, and quotients, as well as square roots of whole numbers, e.g., $\sqrt{17}$. (sample question 11)	<u>Comparing and Scaling</u> Investigation 5: Estimating Populations and Population Densities, 52-64 Investigation 6: Choosing Strategies, 65-81 <u>Accentuate the Negative</u> Investigation 2: Adding Integers, 18-33 Investigation 3: Subtracting Integers, 34-52 Investigation 4: Multiplying and Dividing Integers, 53-66 <u>Data Around Us</u> Investigation 2: Measuring Oil Spills, 12-22

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<p>¥ Apply the correct order of operations. (sample question 16)</p>	<p><u>Comparing and Scaling</u> Investigation 6: Choosing Strategies, 65-81 see Grade 8 unit: <u>Say It with Symbols</u> Investigation 1: Order of Operations, 5-19</p>
<p>¥ Use estimation to check the reasonableness of solutions to problems.</p>	<p><u>Comparing and Scaling</u> Investigation 5: Estimating Populations and Population Densities, 52-64 Investigation 6: Choosing Strategies, 65-81</p> <p><u>Accentuate the Negative</u> Investigation 2: Adding Integers, 18-33 Investigation 3: Subtracting Integers, 34-52 Investigation 4: Multiplying and Dividing Integers, 53-66</p> <p><u>Data Around Us</u> Investigation 1: Interpreting Disaster Reports, 5-11 Investigation 2: Measuring Oil Spills, 12-22</p>

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Ratio, Proportion, Percent (substrand)	
<p>‡ Compute ratios, proportions, and percents and apply appropriately, e.g., In enlarging pictures, using scale models, finding sale prices after a series of discounts. (sample questions 18, 19, 20, 21, 22, 23)</p>	<p><u>Comparing and Scaling</u> Investigation 1: Making Comparisons, 5-15 Investigation 2: Comparing by Finding Percents, 16-25 Investigation 3: Comparing by Using Ratios, 26-36 Investigation 4: Comparing by Finding Rates, 37-51 Investigation 5: Estimating Populations and Population Densities, 52-64 Investigation 6: Choosing Strategies, 65-81</p> <p><u>What Do You Expect?</u> Investigation 1: Evaluating Games of Chance, 5-21</p> <p><u>Data Around Us</u> Investigation 3: Comparing Large Numbers, 23-37</p>

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STRAND 2: PATTERNS, RELATIONS, AND FUNCTIONS	
Patterns and Functions	
<p>¥ Extend and analyze the following types of patterns: numeric patterns, e.g., Sequences, input-output tables, pascal s triangle; geometric patterns, e.g., Triangular numbers, patterns of dots; and patterns in real-world or mathematical situations, e.g., Periods of a pendulum, patterns of digits in repeating decimals. (sample questions 26, 27, 28, 29)</p>	<p><u>Variables and Patterns</u> Investigation 2: Graphing Change, 18-35 Investigation 3: Analyzing Graphs and Tables, 36-48 Investigation 4: Patterns and Rules, 49-60</p> <p><u>Stretching and Shrinking</u> Investigation 3: Patterns of Similar Figures, 28-40</p> <p><u>Moving Straight Ahead</u> Investigation 1: Predicting from Patterns, 5-14 Investigation 2: Walking Rates, 15-34 Investigation 3: Exploring Lines with a Graphing Calculator, 35-52 Investigation 5: Exploring Slope, 64-79</p>
<p>¥ Determine the rules or general terms for patterns of the types described above. (sample question 29)</p>	<p><u>Variables and Patterns</u> Investigation 4: Patterns and Rules, 49-60</p> <p><u>Stretching and Shrinking</u> Investigation 3: Patterns of Similar Figures, 28-40</p> <p><u>Moving Straight Ahead</u> Investigation 6: Writing an Equation for a Line, 80-91</p>

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<p>¥ Describe and represent real-world or mathematical relationships by using verbal descriptions of rules, or charts and tables, e.g., Input-output tables, graphs. (sample question 24)</p>	<p><u>Variables and Patterns</u> Investigation 3: Analyzing Graphs and Tables, 36-48 Investigation 4: Patterns and Rules, 49-60 Investigation 5: Using a Graphing Calculator, 61-68</p> <p><u>Stretching and Shrinking</u> Investigation 3: Patterns of Similar Figures, 28-40</p> <p><u>Moving Straight Ahead</u> Investigation 1: Predicting from Patterns, 5-14 Investigation 2: Walking Rates, 15-34 Investigation 3: Exploring Lines with a Graphing Calculator, 35-52 Investigation 4: Solving Equations, 53-63 Investigation 5: Exploring Slope, 64-79 Investigation 6: Writing an Equation for a Line, 80-91</p>
<p>¥ Describe how a change in one variable affects another in a functional relationship that is presented with word or pictures. (sample question 25)</p>	<p><u>Variables and Patterns</u> Investigation 1: Variables and Coordinate Graphs, 5-17 Investigation 2: Graphing Change, 18-35 Investigation 3: Analyzing Graphs and Tables, 36-48 Investigation 4: Patterns and Rules, 49-60 Investigation 5: Using a Graphing Calculator, 61-68</p> <p><u>Stretching and Shrinking</u> Investigation 3: Patterns of Similar Figures, 28-40</p> <p><u>Moving Straight Ahead</u> Investigation 1: Predicting from Patterns, 5-14 Investigation 2: Walking Rates, 15-34</p>

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Algebra	
¥ Evaluate algebraic expressions for given values of variables (substitution). (sample question 33)	<u>Variables and Patterns</u> Investigation 2: Graphing Change, 18-35 Investigation 3: Analyzing Graphs and Tables, 36-48 Investigation 4: Patterns and Rules, 49-60
¥ Solve linear equations with one variable. (sample question 32)	<u>Moving Straight Ahead</u> Investigation 4: Solving Equations, 53-63 Investigation 5: Exploring Slope, 64-79 Investigation 6: Writing an Equation for a Line, 80-91
¥ Graph on a coordinate plane. (sample question 34)	<u>Variables and Patterns</u> Investigation 1: Variables and Coordinate Graphs, 5-17 Investigation 2: Graphing Change, 18-35 Investigation 3: Analyzing Graphs and Tables, 36-48 Investigation 5: Using a Graphing Calculator, 61-68 <u>Moving Straight Ahead</u> Investigation 3: Exploring Lines with a Graphing Calculator, 35-52

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<p>¥ Describe and represent relationships with algebraic expressions and equations. (sample questions 30, 34)</p>	<p><u>Variables and Patterns</u> Investigation 1: Variables and Coordinate Graphs, 5-17 Investigation 2: Graphing Change, 18-35 Investigation 3: Analyzing Graphs and Tables, 36-48 Investigation 4: Patterns and Rules, 49-60 Investigation 5: Using a Graphing Calculator, 61-68</p> <p><u>Moving Straight Ahead</u> Investigation 1: Predicting from Patterns, 5-14 Investigation 2: Walking Rates, 15-34 Investigation 3: Exploring Lines with a Graphing Calculator, 35-52 Investigation 4: Solving Equations, 53-63 Investigation 5: Exploring Slope, 64-79 Investigation 6: Writing an Equation for a Line, 80-91</p>
<p>¥ Describe and represent relationships with inequalities. (sample question 31)</p>	<p><u>Variables and Patterns</u> Investigation 1: Variables and Coordinate Graphs, 5-17 Investigation 2: Graphing Change, 18-35 Investigation 3: Analyzing Graphs and Tables, 36-48 Investigation 4: Patterns and Rules, 49-60 Investigation 5: Using a Graphing Calculator, 61-68</p> <p><u>Comparing and Scaling</u> Investigation 1: Making Comparisons, 5-15</p>

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<p>¥ Describe how a change in one variable affects another variable in a functional relationship represented by an equation.</p>	<p><u>Variables and Patterns</u> Investigation 4: Patterns and Rules, 49-60 Investigation 5: Using a Graphing Calculator, 61-68</p> <p><u>Moving Straight Ahead</u> Investigation 3: Exploring Lines with a Graphing Calculator, 35-52 Investigation 4: Solving Equations, 53-63 Investigation 5: Exploring Slope, 64-79 Investigation 6: Writing an Equation for a Line, 80-91</p>
STRAND 3: GEOMETRY AND MEASUREMENT	
Geometry	
<p>¥ Identify, describe, compare, and classify geometric figures, e.g., explain how a square is a parallelogram. (sample question 35)</p>	<p><u>Stretching and Shrinking</u> Investigation 1: Enlarging Figures, 5-13 Investigation 3: Patterns of Similar Figures, 28-40 Investigation 6: Stretching and Shrinking with a Computer, 75-84</p> <p><u>Filling and Wrapping</u> Investigation 1: Building Boxes, 5-14</p>
<p>¥ Use the properties of geometric figures, e.g., find the measure of an angle in a regular polygon, recognize the fact that all circles are similar. (sample question 38)</p>	<p><u>Stretching and Shrinking</u> Investigation 2: Similar Figures, 14-27 Investigation 3: Patterns of Similar Figures, 28-40 Investigation 4: Using Similarity, 41-58 Investigation 5: Similar Triangles, 59-74</p>

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<p>¥ Identify congruent and similar figures and use their properties.</p>	<p><u>Stretching and Shrinking</u> Investigation 1: Enlarging Figures, 5-13 Investigation 2: Similar Figures, 14-27 Investigation 3: Patterns of Similar Figures, 28-40 Investigation 4: Using Similarity, 41-58 Investigation 5: Similar Triangles, 59-74 Investigation 6: Stretching and Shrinking with a Computer, 75-84</p> <p><u>Filling and Wrapping</u> Investigation 6: Scaling Boxes, 57-67</p>
<p>¥ Demonstrate understanding of spatial relationships, e.g., divide and separate shapes, use tessellations, determine two-dimensional patterns (nets) that can be folded into three-dimensional shapes. (sample question 39)</p>	<p><u>Stretching and Shrinking</u> Investigation 3: Patterns of Similar Figures, 28-40</p> <p><u>Filling and Wrapping</u> Investigation 1: Building Boxes, 5-14 Investigation 2: Designing Packages, 15-23</p>
<p>¥ Identify properties of parallel, perpendicular, and intersecting lines and their resulting angles. (sample question 37)</p>	<p><u>Variables and Patterns</u> Investigation 1: Variables and Coordinate Graphs, 5-17</p> <p><u>Moving Straight Ahead</u> Investigation 3: Exploring Lines with a Graphing Calculator, 35-52</p>
<p>¥ Identify and use transformations, e.g., translations, rotations, reflections of objects and of figures on the coordinate plane. (sample question 36)</p>	<p><u>Stretching and Shrinking</u> Investigation 3: Patterns of Similar Figures, 28-40 Investigation 5: Similar Triangles, 59-74 Investigation 6: Stretching and Shrinking with a Computer, 75-84</p>

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<p>¥ Explain the concepts of pi and the pythagorean theorem.</p>	<p><u>Variables and Patterns</u> Investigation 4: Patterns and Rules, 49-60</p> <p><u>Stretching and Shrinking</u> Investigation 1: Enlarging Figures, 5-13 Investigation 5: Similar Triangles, 59-74</p> <p><u>Filling and Wrapping</u> Investigation 4: Cylinders, 37-45 Investigation 5: Cones and Spheres, 46-56</p> <p>see Grade 8 unit: <u>Looking for Pythagoras</u></p>

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Measurement (substrand)	
<p>¥ Use appropriate tools to measure with reasonable accuracy and apply those measurements.</p>	<p><u>Variables and Patterns</u> Investigation 1: Variables and Coordinate Graphs, 5-17 Investigation 2: Graphing Change, 18-35 Investigation 3: Analyzing Graphs and Tables, 36-48 Investigation 4: Patterns and Rules, 49-60 Investigation 5: Using a Graphing Calculator, 61-68</p> <p><u>Stretching and Shrinking</u> Investigation 5: Similar Triangles, 59-74</p> <p><u>Comparing and Scaling</u> Investigation 5: Estimating Populations and Population Densities, 52-64</p> <p><u>Moving Straight Ahead</u> Investigation 2: Walking Rates, 15-34 Investigation 4: Solving Equations, 53-63 Investigation 6: Writing an Equation for a Line, 80-91</p> <p><u>Filling and Wrapping</u> Investigation 1: Building Boxes, 5-14 Investigation 2: Designing Packages, 15-23 Investigation 3: Finding Volumes of Boxes, 24-36 Investigation 4: Cylinders, 37-45 Investigation 5: Cones and Spheres, 46-56 Investigation 6: Scaling Boxes, 57-67 Investigation 7: Finding Volumes of Irregular Objects, 68-72</p> <p><u>Data Around Us</u> Investigation 2: Measuring Oil Spills, 12-22</p>

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¥ Estimate length, capacity, weight, and mass. (sample question 41)	<p><u>Stretching and Shrinking</u> Investigation 1: Enlarging Figures, 5-13 Investigation 6: Stretching and Shrinking with a Computer, 75-84</p> <p><u>Comparing and Scaling</u> Investigation 2: Comparing by Finding Percents, 16-25 Investigation 4: Comparing by Finding Rates, 37-51</p> <p><u>Moving Straight Ahead</u> Investigation 2: Walking Rates, 15-34 Investigation 3: Exploring Lines with a Graphing Calculator, 35-52</p> <p><u>Filling and Wrapping</u> Investigation 1: Building Boxes, 5-14 Investigation 2: Designing Packages, 15-23 Investigation 3: Finding Volumes of Boxes, 24-36 Investigation 4: Cylinders, 37-45 Investigation 5: Cones and Spheres, 46-56 Investigation 6: Scaling Boxes, 57-67 Investigation 7: Finding Volumes of Irregular Objects, 68-72</p> <p><u>Data Around Us</u> Investigation 1: Interpreting Disaster Reports, 5-11 Investigation 2: Measuring Oil Spills, 12-22 Investigation 3: Comparing Large Numbers, 23-37 Investigation 4: How Many is a Million?, 38-50 Investigation 5: Every Litter Bit Hurts, 51-60 Investigation 6: On an Average Day, 61-69</p>

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<p>¥ Use concepts of accuracy, precision, and error of measurement, e.g., Determine reasonable units to use in measuring a wall for the purpose of buying a baseboard or, by contrast, for the purpose of determining the length of baseboard to cut for installation. (sample question 40)</p>	<p><u>Stretching and Shrinking</u> Investigation 1: Enlarging Figures, 5-13 Investigation 6: Stretching and Shrinking with a Computer, 75-84</p> <p><u>Comparing and Scaling</u> Investigation 2: Comparing by Finding Percents, 16-25 Investigation 4: Comparing by Finding Rates, 37-51</p> <p><u>Data Around Us</u> Investigation 2: Measuring Oil Spills, 12-22</p>
<p>¥ Convert units of length, capacity, weight, and time within either the metric system of the customary system. (sample question 43)</p>	<p><u>Stretching and Shrinking</u> Investigation 4: Using Similarity, 41-58</p> <p><u>Comparing and Scaling</u> Investigation 4: Comparing by Finding Rates, 37-51</p> <p><u>Filling and Wrapping</u> Investigation 2: Designing Packages, 15-23</p> <p><u>Data Around Us</u> Investigation 2: Measuring Oil Spills, 12-22 Investigation 3: Comparing Large Numbers, 23-37 Investigation 5: Every Litter Bit Hurts, 51-60</p>

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¥ Solve problems involving rates. (sample question 42)	<u>Comparing and Scaling</u> Investigation 4: Comparing by Finding Rates, 37-51 Investigation 5: Estimating Populations and Population Densities, 52-64 Investigation 6: Choosing Strategies, 65-81 <u>Moving Straight Ahead</u> Investigation 5: Exploring Slope, 64-79
Geometric Measurement (substrand)	
¥ Estimate measure of angles.	<u>Stretching and Shrinking</u> Investigation 4: Using Similarity, 41-58
¥ Estimate areas of irregular figures using grids or rulers.	<u>What Do You Expect?</u> Investigation 3: Probability and Area, 32-40 <u>Data Around Us</u> Investigation 1: Interpreting Disaster Reports, 5-11 Investigation 2: Measuring Oil Spills, 12-22

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<p>¥ Find perimeter, circumference, area, surface area, and volume. (sample question 44)</p>	<p><u>Stretching and Shrinking</u> Investigation 1: Enlarging Figures, 5-13 Investigation 6: Stretching and Shrinking with a Computer, 75-84</p> <p><u>Filling and Wrapping</u> Investigation 1: Building Boxes, 5-14 Investigation 2: Designing Packages, 15-23 Investigation 3: Finding Volumes of Boxes, 24-36 Investigation 4: Cylinders, 37-45 Investigation 5: Cones and Spheres, 46-56 Investigation 6: Scaling Boxes, 57-67 Investigation 7: Finding Volumes of Irregular Objects, 68-72</p> <p><u>Data Around Us</u> Investigation 1: Interpreting Disaster Reports, 5-11 Investigation 2: Measuring Oil Spills, 12-22 Investigation 3: Comparing Large Numbers, 23-37 Investigation 4: How Many is a Million?, 38-50 Investigation 5: Every Litter Bit Hurts, 51-60 Investigation 6: On an Average Day, 61-69</p>

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<p>¥ Apply the concepts and formulas for perimeter, circumference, area, surface area, and volume to solve problems, e.g., Determine the volume of any cube when the lengths of its edge are doubled. (sample questions 45, 47)</p>	<p><u>Stretching and Shrinking</u> Investigation 1: Enlarging Figures, 5-13 Investigation 6: Stretching and Shrinking with a Computer, 75-84</p> <p><u>Filling and Wrapping</u> Investigation 1: Building Boxes, 5-14 Investigation 2: Designing Packages, 15-23 Investigation 3: Finding Volumes of Boxes, 24-36 Investigation 4: Cylinders, 37-45 Investigation 5: Cones and Spheres, 46-56 Investigation 6: Scaling Boxes, 57-67 Investigation 7: Finding Volumes of Irregular Objects, 68-72</p> <p><u>Data Around Us</u> Investigation 1: Interpreting Disaster Reports, 5-11 Investigation 2: Measuring Oil Spills, 12-22 Investigation 3: Comparing Large Numbers, 23-37 Investigation 4: How Many is a Million?, 38-50 Investigation 5: Every Litter Bit Hurts, 51-60 Investigation 6: On an Average Day, 61-69</p>
<p>¥ Solve problems involving indirect measurements, e.g., Problems requiring use of the pythagorean theorem and similar triangles. (sample question 46)</p>	<p><u>Stretching and Shrinking</u> Investigation 4: Using Similarity, 41-58 Investigation 5: Similar Triangles, 59-74</p> <p>see Grade 8 unit: <u>Looking for Pythagoras</u></p>

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STRAND 4: STATISTICS AND PROBABILITY	
Statistics	
<p>¥ Read and interpret data from bar, line, and circle graphs, pictographs, and scatter plots. (sample question 50)</p>	<p><u>Variables and Patterns</u> Investigation 1: Variables and Coordinate Graphs, 5-17 Investigation 2: Graphing Change, 18-35 Investigation 3: Analyzing Graphs and Tables, 36-48</p> <p><u>Comparing and Scaling</u> Investigation 5: Estimating Populations and Population Densities, 52-64 Investigation 6: Choosing Strategies, 65-81</p> <p><u>Accentuate the Negative</u> Investigation 5: Coordinate Grids, 67-82</p> <p><u>Moving Straight Ahead</u> Investigation 1: Predicting from Patterns, 5-14 Investigation 2: Walking Rates, 15-34 Investigation 3: Exploring Lines with a Graphing Calculator, 35-52</p> <p><u>What Do You Expect?</u> Investigation 7: Analyzing Sequences of Outcomes, 69-78</p> <p><u>Data Around Us</u> Investigation 1: Interpreting Disaster Reports, 5-11 Investigation 2: Measuring Oil Spills, 12-22 Investigation 3: Comparing Large Numbers, 23-37 Investigation 4: How Many is a Million?, 38-50 Investigation 5: Every Litter Bit Hurts, 51-60 Investigation 6: On an Average Day, 61-69</p>

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<p>¥ Draw conclusions and evaluate arguments based on data presented in tables, charts, graphs, and advertisements. (sample question 49)</p>	<p><u>What Do You Expect?</u> Investigation 7: Analyzing Sequences of Outcomes, 69-78</p> <p><u>Data Around Us</u> Investigation 1: Interpreting Disaster Reports, 5-11 Investigation 2: Measuring Oil Spills, 12-22 Investigation 3: Comparing Large Numbers, 23-37 Investigation 4: How Many is a Million?, 38-50 Investigation 5: Every Litter Bit Hurts, 51-60 Investigation 6: On an Average Day, 61-69</p>
<p>¥ Design surveys, e.g., How the sample should be chosen, what questions should be asked, how the data should be aggregated and reported.</p>	<p><u>Data Around Us</u> Investigation 4: How Many is a Million?, 38-50 Investigation 5: Every Litter Bit Hurts, 51-60 Investigation 6: On an Average Day, 61-69</p>
<p>¥ Construct graphs appropriate to the type of data to be represented. (sample question 48)</p>	<p><u>Variables and Patterns</u> Investigation 1: Variables and Coordinate Graphs, 5-17 Investigation 2: Graphing Change, 18-35 Investigation 3: Analyzing Graphs and Tables, 36-48</p> <p><u>Data Around Us</u> Investigation 1: Interpreting Disaster Reports, 5-11 Investigation 2: Measuring Oil Spills, 12-22 Investigation 3: Comparing Large Numbers, 23-37 Investigation 4: How Many is a Million?, 38-50 Investigation 5: Every Litter Bit Hurts, 51-60 Investigation 6: On an Average Day, 61-69</p>

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<p>¥ Compute and interpret mean, median, mode, and range of sets of data, and draw and justify conclusions based on these statistics. (sample question 51)</p>	<p><u>Comparing and Scaling</u> Investigation 1: Making Comparisons, 10 Investigation 6: Choosing Strategies, 75, 77</p> <p><u>Data Around Us</u> Investigation 5: Every Litter Bit Hurts, 51-60 Investigation 6: On an Average Day, 61-69</p>
Probability	
<p>¥ Determine the number of possible combinations in different types of situations, e.g., Find the number of different ways acts in a talent show can be present.</p>	<p><u>What Do You Expect?</u> Investigation 1: Evaluating Games of Chance, 5-21 Investigation 4: Analyzing Two-Stage Games, 41-49 Investigation 5: Expected Value, 50-58 Investigation 6: Carnival Games, 59-68 Investigation 7: Analyzing Sequences of Outcomes, 69-78</p>
<p>¥ Construct the set of all possible outcomes (sample space) and determine theoretical probabilities in given situations. (sample questions 52, 54)</p>	<p><u>What Do You Expect?</u> Investigation 1: Evaluating Games of Chance, 5-21 Investigation 4: Analyzing Two-Stage Games, 41-49 Investigation 5: Expected Value, 50-58 Investigation 6: Carnival Games, 59-68 Investigation 7: Analyzing Sequences of Outcomes, 69-78</p>
<p>¥ Determine empirical probabilities based on given data. (sample question 53)</p>	<p><u>What Do You Expect?</u> Investigation 1: Evaluating Games of Chance, 5-21 Investigation 2: Analyzing Number-Cube Games, 22-31 Investigation 3: Probability and Area, 32-40</p>

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<p>¥ Make predictions and draw conclusions based on counting procedures and probability. (sample question 55)</p>	<p><u>What Do You Expect?</u> Investigation 1: Evaluating Games of Chance, 5-21 Investigation 2: Analyzing Number-Cube Games, 22-31 Investigation 3: Probability and Area, 32-40 Investigation 4: Analyzing Two-Stage Games, 41-49 Investigation 5: Expected Value, 50-58 Investigation 6: Carnival Games, 59-68 Investigation 7: Analyzing Sequences of Outcomes, 69-78</p>

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