

Prentice Hall: Connected Mathematics* '1998
 Correlated to
**Massachusetts Mathematics Curriculum Framework Learning Standards
 (Grade 6)**

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>Bits and Pieces I</u> Investigation 1: Fund-Raising Fractions, 5-18 Investigation 2: Comparing Fractions, 19-30 Investigation 3: Cooking with Fractions, 31-38 Investigation 4: From Fractions to Decimals, 39-52 Investigation 5: Moving Between Fractions and Decimals, 53-66 Investigation 6: Out of One Hundred, 67-83</p> <p><u>Bits and Pieces II</u> Investigation 1: Using Percents, 5-17 Investigation 2: More About Percents, 18-30 Investigation 3: Estimating with Fractions and Decimals, 31-42</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>Shapes and Designs</u> Investigation 4: Polygon Properties and Tiling, 42-50</p> <p><u>Bits and Pieces I</u> Investigation 1: Fund-Raising Fractions, 5-18 Investigation 2: Comparing Fractions, 19-30 Investigation 4: From Fractions to Decimals, 39-52 Investigation 5: Moving Between Fractions and Decimals, 53-66 Investigation 6: Out of One Hundred, 67-83</p> <p><u>How Likely Is It?</u> Investigation 1: A First Look at Chance, 5-13 Investigation 2: More Experiments with Chance, 14-21 Investigation 3: Using Spinners to Predict Chances, 22-28 Investigation 4: Theoretical Probabilities, 29-41 Investigation 5: Analyzing Games of Chance, 42-48 Investigation 6: More About Games of Chance, 49-56 Investigation 7: Probability and Genetics, 57-64</p> <p><u>Bits and Pieces II</u> Investigation 1: Using Percents, 5-17 Investigation 2: More About Percents, 18-30 Investigation 4: Adding and Subtracting Fractions, 43-53</p>

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¥ Investigate and describe the relationships among fractions, decimals, and percents.	<p><u>Bits and Pieces I</u> Investigation 4: From Fractions to Decimals, 39-52 Investigation 5: Moving Between Fractions and Decimals, 53-66 Investigation 6: Out of One Hundred, 67-83</p> <p><u>Bits and Pieces II</u> Investigation 1: Using Percents, 5-17 Investigation 2: More About Percents, 18-30 Investigation 3: Estimating with Fractions and Decimals, 31-42</p>
¥ Represent numerical relationships in one- and two-dimensional graphs.	<p><u>Data About Us</u> Investigation 1: Looking at Data, 6-21 Investigation 2: Types of Data, 22-29 Investigation 3: Using Graphs to Group Data, 30-41 Investigation 4: Coordinate Graphs, 42-52</p> <p><u>Bits and Pieces II</u> Investigation 2: More About Percents, 18-30</p>

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Number Systems and Number Theory	
¥ Explain the need for numbers other than whole numbers.	<u>Bits and Pieces I</u> Investigation 2: Comparing Fractions, 19-30 Investigation 4: From Fractions to Decimals, 39-52 Investigation 5: Moving Between Fractions and Decimals, 53-66 Investigation 6: Out of One Hundred, 67-83 <u>Bits and Pieces II</u> Investigation 1: Using Percents, 5-17 Investigation 2: More About Percents, 18-30 Investigation 3: Estimating with Fractions and Decimals, 31-42
¥ Know and use order relations for whole numbers, fractions, decimals, integers, and rational numbers.	<u>Bits and Pieces I</u> Investigation 2: Comparing Fractions, 19-30 Investigation 4: From Fractions to Decimals, 39-52 Investigation 5: Moving Between Fractions and Decimals, 53-66 Investigation 6: Out of One Hundred, 67-83 <u>Bits and Pieces II</u> Investigation 3: Estimating with Fractions and Decimals, 31-42

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<p>¥ Use operations involving fractions, decimals, integers, and rational numbers.</p>	<p><u>Prime Time</u> Investigation 3: Factor Pairs, 26-35 Investigation 4: Common Factors and Multiples, 36-45</p> <p><u>Covering and Surrounding</u> Investigation 3: Constant Area, Changing Perimeter, 29-34 Investigation 4: Constant Perimeter, Changing Area, 35-45</p> <p><u>Bits and Pieces II</u> Investigation 1: Using Percents, 5-17 Investigation 2: More About Percents, 18-30 Investigation 3: Estimating with Fractions and Decimals, 31-42 Investigation 4: Adding and Subtracting Fractions, 43-53 Investigation 5: Finding Areas and Other Products, 54-63 Investigation 6: Computing with Decimals, 64-76</p>
<p>¥ Demonstrate how basic operations are related to one another.</p>	<p><u>Prime Time</u> Investigation 3: Factor Pairs, 26-35 Investigation 4: Common Factors and Multiples, 36-45 Investigation 5: Factorizations, 46-57</p> <p><u>Bits and Pieces II</u> Investigation 4: Adding and Subtracting Fractions, 43-53 Investigation 5: Finding Areas and Other Products, 54-63 Investigation 6: Computing with Decimals, 64-76</p>

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¥ Create and apply number theory concepts, including prime numbers, factors, and multiples.	<u>Prime Time</u> Investigation 3: Factor Pairs, 26-35 Investigation 4: Common Factors and Multiples, 36-45 Investigation 5: Factorizations, 46-57 Investigation 6: The Locker Problem, 58-64 <u>Bits and Pieces I</u> Investigation 2: Comparing Fractions, 19-30 Investigation 4: From Fractions to Decimals, 39-52 Investigation 5: Moving Between Fractions and Decimals, 53-66 <u>Bits and Pieces II</u> Investigation 4: Adding and Subtracting Fractions, 43-53
Computation and Estimation	
¥ Compute with whole numbers, fractions, decimals, integers, and rational numbers.	<u>Prime Time</u> Investigation 3: Factor Pairs, 26-35 Investigation 4: Common Factors and Multiples, 36-45 <u>Covering and Surrounding</u> Investigation 3: Constant Area, Changing Perimeter, 29-34 Investigation 4: Constant Perimeter, Changing Area, 35-45 <u>Bits and Pieces II</u> Investigation 1: Using Percents, 5-17 Investigation 2: More About Percents, 18-30 Investigation 3: Estimating with Fractions and Decimals, 31-42 Investigation 4: Adding and Subtracting Fractions, 43-53 Investigation 5: Finding Areas and Other Products, 54-63 Investigation 6: Computing with Decimals, 64-76

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<p>¥ Develop, analyze, and explain procedures for computing, estimating, and solving proportions.</p>	<p>(preparation) <u>Shapes and Designs</u> Investigation 4: Polygon Properties and Tiling, 42-50</p> <p>(preparation) <u>Bits and Pieces I</u> Investigation 1: Fund-Raising Fractions, 5-18 Investigation 2: Comparing Fractions, 19-30</p> <p>(preparation) <u>Bits and Pieces II</u> Investigation 1: Using Percents, 5-17 Investigation 2: More About Percents, 18-30</p> <p>see Grade 7 unit: <u>Comparing and Scaling</u></p>
<p>¥ Select and use an appropriate method for computing from among mental math, estimation, paper-and-pencil, calculator, and computer methods.</p>	<p><u>Prime Time</u> Investigation 3: Factor Pairs, 26-35 Investigation 4: Common Factors and Multiples, 36-45</p> <p><u>Covering and Surrounding</u> Investigation 3: Constant Area, Changing Perimeter, 29-34 Investigation 4: Constant Perimeter, Changing Area, 35-45</p> <p><u>Bits and Pieces II</u> Investigation 1: Using Percents, 5-17 Investigation 2: More About Percents, 18-30 Investigation 3: Estimating with Fractions and Decimals, 31-42 Investigation 4: Adding and Subtracting Fractions, 43-53 Investigation 5: Finding Areas and Other Products, 54-63 Investigation 6: Computing with Decimals, 64-76</p>

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<p>¥ Use computation, estimation, and proportions to solve problems.</p>	<p><u>Shapes and Designs</u> Investigation 4: Polygon Properties and Tiling, 42-50</p> <p><u>Bits and Pieces I</u> Investigation 1: Fund-Raising Fractions, 5-18 Investigation 2: Comparing Fractions, 19-30</p> <p><u>Bits and Pieces II</u> Investigation 1: Using Percents, 5-17 Investigation 2: More About Percents, 18-30</p>

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<p>¥ Estimate to check the reasonableness of results of computations and problems involving rational numbers.</p>	<p><u>Bits and Pieces I</u> Investigation 3: Cooking with Fractions, 31-38 Investigation 4: From Fractions to Decimals, 39-52 Investigation 5: Moving Between Fractions and Decimals, 53-66 Investigation 6: Out of One Hundred, 67-83</p> <p><u>Covering and Surrounding</u> Investigation 1: Measuring Area and Perimeter, 6-18 Investigation 3: Constant Area, Changing Perimeter, 29-34</p> <p><u>How Likely Is It?</u> Investigation 1: A First Look at Chance, 5-13 Investigation 2: More Experiments with Chance, 14-21 Investigation 3: Using Spinners to Predict Chances, 22-28 Investigation 4: Theoretical Probabilities, 29-41 Investigation 7: Probability and Genetics, 57-64</p> <p><u>Bits and Pieces II</u> Investigation 1: Using Percents, 5-17 Investigation 2: More About Percents, 18-30 Investigation 3: Estimating with Fractions and Decimals, 31-42 Investigation 4: Adding and Subtracting Fractions, 43-53 Investigation 5: Finding Areas and Other Products, 54-63 Investigation 6: Computing with Decimals, 64-76</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>Prime Time</u> Investigation 1: The Factor Game, 5-16 Investigation 2: The Product Game, 17-25 Investigation 3: Factor Pairs, 26-35 Investigation 4: Common Factors and Multiples, 36-45 Investigation 5: Factorizations, 46-57 Investigation 6: The Locker Problem, 58-64</p> <p><u>Data About Us</u> Investigation 1: Looking at Data, 6-21 Investigation 4: Coordinate Graphs, 42-52</p> <p><u>Shapes and Designs</u> Investigation 4: Polygon Properties and Tiling, 42-50</p> <p><u>Covering and Surrounding</u> Investigation 5: Measuring Parallelograms, 46-55 Investigation 6: Measuring Triangles, 56-68</p>

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<p>¥ Describe and represent relationships with models, tables, graphs, and rules, using sentences and algebraic expressions.</p>	<p><u>Prime Time</u> Investigation 6: The Locker Problem, 58-64</p> <p><u>Data About Us</u> Investigation 1: Looking at Data, 6-21 Investigation 2: Types of Data, 22-29 Investigation 3: Using Graphs to Group Data, 30-41 Investigation 4: Coordinate Graphs, 42-52 Investigation 5: What Do We Mean by <i>Mean?</i>, 53-67</p> <p><u>Covering and Surrounding</u> Investigation 3: Constant Area, Changing Perimeter, 29-34 Investigation 4: Constant Perimeter, Changing Area, 35-45</p> <p><u>Bits and Pieces II</u> Investigation 1: Using Percents, 5-17 Investigation 2: More About Percents, 18-30 Investigation 3: Estimating with Fractions and Decimals, 31-42 Investigation 4: Adding and Subtracting Fractions, 43-53 Investigation 5: Finding Areas and Other Products, 54-63 Investigation 6: Computing with Decimals, 64-76</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>Shapes and Designs</u> Investigation 4: Polygon Properties and Tiling, 42-50</p> <p><u>Covering and Surrounding</u> Investigation 3: Constant Area, Changing Perimeter, 29-34 Investigation 4: Constant Perimeter, Changing Area, 35-45 Investigation 7: Going Around in Circles, 69-81</p> <p><u>Bits and Pieces II</u> Investigation 4: Adding and Subtracting Fractions, 43-53 Investigation 5: Finding Areas and Other Products, 54-63 Investigation 6: Computing with Decimals, 64-76</p>

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<p>¥ Use patterns and functions to represent and solve problems.</p>	<p><u>Prime Time</u> Investigation 6: The Locker Problem, 58-64</p> <p><u>Data About Us</u> Investigation 1: Looking at Data, 6-21 Investigation 2: Types of Data, 22-29 Investigation 3: Using Graphs to Group Data, 30-41 Investigation 4: Coordinate Graphs, 42-52 Investigation 5: What Do We Mean by <i>Mean?</i>, 53-67</p> <p><u>Covering and Surrounding</u> Investigation 3: Constant Area, Changing Perimeter, 29-34 Investigation 4: Constant Perimeter, Changing Area, 35-45</p> <p><u>Bits and Pieces II</u> Investigation 1: Using Percents, 5-17 Investigation 2: More About Percents, 18-30 Investigation 3: Estimating with Fractions and Decimals, 31-42 Investigation 4: Adding and Subtracting Fractions, 43-53 Investigation 5: Finding Areas and Other Products, 54-63 Investigation 6: Computing with Decimals, 64-76</p>

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Algebra	
<p>¥ Understand and apply the concepts of variable, expression, and equation.</p>	<p>(preparation) <u>Bits and Pieces II</u> Investigation 4: Adding and Subtracting Fractions, 43-53 Investigation 5: Finding Areas and Other Products, 54-63 Investigation 6: Computing with Decimals, 64-76 see Grade 7 unit: <u>Variables and Patterns</u></p>
<p>¥ Represent situations and number patterns with tables, graphs, verbal rules, and equations and explore the interrelationships of these representations.</p>	<p><u>Prime Time</u> Investigation 6: The Locker Problem, 58-64 <u>Data About Us</u> Investigation 1: Looking at Data, 6-21 Investigation 2: Types of Data, 22-29 Investigation 3: Using Graphs to Group Data, 30-41 Investigation 4: Coordinate Graphs, 42-52 Investigation 5: What Do We Mean by <i>Mean?</i>, 53-67 <u>Covering and Surrounding</u> Investigation 3: Constant Area, Changing Perimeter, 29-34 Investigation 4: Constant Perimeter, Changing Area, 35-45 <u>Bits and Pieces II</u> Investigation 1: Using Percents, 5-17 Investigation 2: More About Percents, 18-30 Investigation 3: Estimating with Fractions and Decimals, 31-42 Investigation 4: Adding and Subtracting Fractions, 43-53 Investigation 5: Finding Areas and Other Products, 54-63 Investigation 6: Computing with Decimals, 64-76</p>

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<p>¥ Analyze tables and graphs to identify properties and relationships.</p>	<p><u>Prime Time</u> Investigation 6: The Locker Problem, 58-64</p> <p><u>Data About Us</u> Investigation 1: Looking at Data, 6-21 Investigation 2: Types of Data, 22-29 Investigation 3: Using Graphs to Group Data, 30-41 Investigation 4: Coordinate Graphs, 42-52</p> <p><u>Covering and Surrounding</u> Investigation 3: Constant Area, Changing Perimeter, 29-34 Investigation 4: Constant Perimeter, Changing Area, 35-45</p> <p><u>Bits and Pieces II</u> Investigation 5: Finding Areas and Other Products, 54-63 Investigation 6: Computing with Decimals, 64-76</p>
<p>¥ Demonstrate an ability to solve linear equations using concrete, informal, and formal methods.</p>	<p>(preparation) <u>Shapes and Designs</u> Investigation 4: Polygon Properties and Tiling, 42-50</p> <p>(preparation) <u>Covering and Surrounding</u> Investigation 7: Going Around in Circles, 69-81</p> <p>(preparation) <u>Bits and Pieces II</u> Investigation 4: Adding and Subtracting Fractions, 43-53 Investigation 5: Finding Areas and Other Products, 54-63 Investigation 6: Computing with Decimals, 64-76</p> <p>see Grade 7 unit: <u>Moving Straight Ahead</u></p>

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<p>¥ Describe the strategies used to explore inequalities and nonlinear equations.</p>	<p>(preparation) <u>Shapes and Designs</u> Investigation 4: Polygon Properties and Tiling, 42-50</p> <p>(preparation) <u>Covering and Surrounding</u> Investigation 7: Going Around in Circles, 69-81</p> <p>(preparation) <u>Bits and Pieces II</u> Investigation 4: Adding and Subtracting Fractions, 43-53 Investigation 5: Finding Areas and Other Products, 54-63 Investigation 6: Computing with Decimals, 64-76</p> <p>see Grade 7 unit: <u>Variables and Patterns</u></p>
<p>¥ Apply algebraic methods to solve a variety of real-world and theoretical problems.</p>	<p>(preparation) <u>Shapes and Designs</u> Investigation 4: Polygon Properties and Tiling, 42-50</p> <p>(preparation) <u>Covering and Surrounding</u> Investigation 7: Going Around in Circles, 69-81</p> <p>(preparation) <u>Bits and Pieces II</u> Investigation 4: Adding and Subtracting Fractions, 43-53 Investigation 5: Finding Areas and Other Products, 54-63 Investigation 6: Computing with Decimals, 64-76</p> <p>see Grade 7 units: <u>Variables and Patterns</u>; <u>Moving Straight Ahead</u></p>
<p>¥ Construct expressions or equations that model problems.</p>	<p>(preparation) <u>Bits and Pieces II</u> Investigation 4: Adding and Subtracting Fractions, 43-53 Investigation 5: Finding Areas and Other Products, 54-63 Investigation 6: Computing with Decimals, 64-76</p> <p>see Grade 7 units: <u>Variables and Patterns</u></p>

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<p>¥ Explore and describe a variety of ways to solve equations, including hand-on activities, trial and error, and numerical analysis.</p>	<p>(preparation) <u>Bits and Pieces II</u> Investigation 4: Adding and Subtracting Fractions, 43-53 Investigation 5: Finding Areas and Other Products, 54-63 Investigation 6: Computing with Decimals, 64-76 see Grade 7 units: <u>Variables and Patterns</u></p>
<p>¥ Know and apply algebraic procedures for solving equations and inequalities.</p>	<p>(preparation) <u>Shapes and Designs</u> Investigation 4: Polygon Properties and Tiling, 42-50 (preparation) <u>Covering and Surrounding</u> Investigation 7: Going Around in Circles, 69-81 (preparation) <u>Bits and Pieces II</u> Investigation 4: Adding and Subtracting Fractions, 43-53 Investigation 5: Finding Areas and Other Products, 54-63 Investigation 6: Computing with Decimals, 64-76 see Grade 7 units: <u>Variables and Patterns</u>; <u>Moving Straight Ahead</u></p>

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STRAND 3: GEOMETRY AND MEASUREMENT	
Geometry	
1 Identify, describe, compare, and classify geometric figures.	<u>Shapes and Designs</u> Investigation 1: Bees and Polygons, 8-14 Investigation 2: Building Polygons, 15-21 Investigation 3: Polygons and Angles, 22-41 Investigation 4: Polygon Properties and Tiling, 42-50
2 Explore and describe the properties of points, lines, and planes.	<u>Shapes and Designs</u> Investigation 1: Bees and Polygons, 8-14 Investigation 3: Polygons and Angles, 22-41 Investigation 4: Polygon Properties and Tiling, 42-50 Investigation 5: Side-Angle-Shape Connections, 51-63 <u>Covering and Surrounding</u> Investigation 5: Measuring Parallelograms, 46-55 Investigation 6: Measuring Triangles, 56-68 Investigation 7: Going Around in Circles, 69-81

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¥ Visualize and draw geometric figures.	<p><u>Shapes and Designs</u></p> <ul style="list-style-type: none"> Investigation 2: Building Polygons, 15-21 Investigation 3: Polygons and Angles, 22-41 Investigation 4: Polygon Properties and Tiling, 42-50 Investigation 5: Side-Angle-Shape Connections, 51-63 Investigation 6: Turtle Tracks, 64-75 <p><u>Covering and Surrounding</u></p> <ul style="list-style-type: none"> Investigation 3: Constant Area, Changing Perimeter, 29-34 Investigation 4: Constant Perimeter, Changing Area, 35-45 Investigation 5: Measuring Parallelograms, 46-55 Investigation 6: Measuring Triangles, 56-68 Investigation 7: Going Around in Circles, 69-81 <p><u>Ruins of Montarek</u></p> <ul style="list-style-type: none"> Investigation 1: Building Plans, 7-25 Investigation 2: Making Buildings, 26-39 Investigation 3: Describing Unique Buildings, 40-51 Investigation 4: Isometric Dot Paper Representations, 52-61 Investigation 5: Ziggurats, 62-71 Investigation 6: Seeing the Isometric View, 72-81

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¥ Explore and describe transformations of geometric figures.	<p><u>Shapes and Designs</u> Investigation 5: Side-Angle-Shape Connections, 51-63 Investigation 6: Turtle Tracks, 64-75</p> <p><u>Covering and Surrounding</u> Investigation 3: Constant Area, Changing Perimeter, 29-34 Investigation 4: Constant Perimeter, Changing Area, 35-45 Investigation 5: Measuring Parallelograms, 46-55 Investigation 6: Measuring Triangles, 56-68 Investigation 7: Going Around in Circles, 69-81</p> <p>see Grade 7 unit: <u>Stretching and Shrinking</u></p>

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<p>¥ Represent and solve problems, using geometric models.</p>	<p><u>Shapes and Designs</u> Investigation 1: Bees and Polygons, 8-14 Investigation 2: Building Polygons, 15-21 Investigation 3: Polygons and Angles, 22-41 Investigation 4: Polygon Properties and Tiling, 42-50 Investigation 5: Side-Angle-Shape Connections, 51-63 Investigation 6: Turtle Tracks, 64-75</p> <p><u>Covering and Surrounding</u> Investigation 5: Measuring Parallelograms, 46-55 Investigation 6: Measuring Triangles, 56-68 Investigation 7: Going Around in Circles, 69-81</p> <p><u>Ruins of Montarek</u> Investigation 1: Building Plans, 7-25 Investigation 2: Making Buildings, 26-39 Investigation 3: Describing Unique Buildings, 40-51 Investigation 4: Isometric Dot Paper Representations, 52-61 Investigation 5: Ziggurats, 62-71 Investigation 6: Seeing the Isometric View, 72-81</p>

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¥ Apply geometric properties and relationships.	<p><u>Shapes and Designs</u> Investigation 1: Bees and Polygons, 8-14 Investigation 2: Building Polygons, 15-21 Investigation 3: Polygons and Angles, 22-41 Investigation 4: Polygon Properties and Tiling, 42-50 Investigation 5: Side-Angle-Shape Connections, 51-63 Investigation 6: Turtle Tracks, 64-75</p> <p><u>Covering and Surrounding</u> Investigation 3: Constant Area, Changing Perimeter, 29-34 Investigation 4: Constant Perimeter, Changing Area, 35-45 Investigation 5: Measuring Parallelograms, 46-55 Investigation 6: Measuring Triangles, 56-68 Investigation 7: Going Around in Circles, 69-81</p> <p><u>Ruins of Montarek</u> Investigation 1: Building Plans, 7-25 Investigation 2: Making Buildings, 26-39 Investigation 3: Describing Unique Buildings, 40-51 Investigation 4: Isometric Dot Paper Representations, 52-61 Investigation 5: Ziggurats, 62-71 Investigation 6: Seeing the Isometric View, 72-81</p>
¥ Develop and explain the concept of pi.	<p><u>Covering and Surrounding</u> Investigation 7: Going Around in Circles, 69-81</p>
¥ Develop and explain the concept of the Pythagorean theorem.	<p>(preparation) <u>Covering and Surrounding</u> Investigation 6: Measuring Triangles, 56-68 see Grade 8 unit: <u>Looking for Pythagoras</u></p>

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CURRICULUM FRAMEWORK LEARNING STANDARDS	PAGE(S) WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
Measurement	
<p>¥ Select appropriate units and tools to measure to the degree of accuracy required in a particular situation.</p>	<p><u>Shapes and Designs</u> Investigation 3: Polygons and Angles, 22-41</p> <p><u>Covering and Surrounding</u> Investigation 1: Measuring Area and Perimeter, 6-18 Investigation 2: Measuring Odd Shapes, 19-28 Investigation 3: Constant Area, Changing Perimeter, 29-34 Investigation 4: Constant Perimeter, Changing Area, 35-45 Investigation 5: Measuring Parallelograms, 46-55 Investigation 6: Measuring Triangles, 56-68 Investigation 7: Going Around in Circles, 69-81</p> <p><u>Bits and Pieces II</u> Investigation 6: Computing with Decimals, 64-76</p>

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<p>¥ Describe the meaning of perimeter, area, volume, angle measure, capacity, density, weight, and mass.</p>	<p><u>Shapes and Designs</u> Investigation 3: Polygons and Angles, 22-41 Investigation 4: Polygon Properties and Tiling, 42-50</p> <p><u>Covering and Surrounding</u> Investigation 1: Measuring Area and Perimeter, 6-18 Investigation 2: Measuring Odd Shapes, 19-28 Investigation 3: Constant Area, Changing Perimeter, 29-34 Investigation 4: Constant Perimeter, Changing Area, 35-45 Investigation 5: Measuring Parallelograms, 46-55 Investigation 6: Measuring Triangles, 56-68 Investigation 7: Going Around in Circles, 69-81</p> <p><u>How Likely Is It?</u> Investigation 3: Using Spinners to Predict Chances, 22-28</p> <p><u>Bits and Pieces II</u> Investigation 1: Using Percents, 5-17 Investigation 5: Finding Areas and Other Products, 54-63 Investigation 6: Computing with Decimals, 64-76</p> <p><u>Ruins of Montarek</u> Investigation 4: Isometric Dot Paper Representations, 52-61</p>

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¥ Develop and describe the concepts of rates and other derived and indirect measurements.	<u>Data About Us</u> Investigation 3: Using Graphs to Group Data, 30-41 <u>Bits and Pieces I</u> Investigation 5: Moving Between Fractions and Decimals, 53-66 Investigation 6: Out of One Hundred, 67-83 <u>Bits and Pieces II</u> Investigation 1: Using Percents, 5-17 Investigation 6: Computing with Decimals, 64-76
¥ Develop and apply formulas and procedures for determining measures to solve problems.	<u>Covering and Surrounding</u> Investigation 3: Constant Area, Changing Perimeter, 29-34 Investigation 4: Constant Perimeter, Changing Area, 35-45 Investigation 5: Measuring Parallelograms, 46-55 Investigation 6: Measuring Triangles, 56-68 Investigation 7: Going Around in Circles, 69-81 <u>Bits and Pieces II</u> Investigation 5: Finding Areas and Other Products, 54-63

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STRAND 4: STATISTICS AND PROBABILITY	
Statistics	
<p>‡ Collect, organize, and describe data systematically.</p>	<p><u>Prime Time</u> Investigation 6: The Locker Problem, 58-64</p> <p><u>Data About Us</u> Investigation 1: Looking at Data, 6-21 Investigation 2: Types of Data, 22-29 Investigation 3: Using Graphs to Group Data, 30-41 Investigation 4: Coordinate Graphs, 42-52 Investigation 5: What Do We Mean by <i>Mean?</i>, 53-67</p> <p><u>Bits and Pieces I</u> Investigation 1: Fund-Raising Fractions, 5-18</p> <p><u>How Likely Is It?</u> Investigation 1: A First Look at Chance, 5-13 Investigation 2: More Experiments with Chance, 14-21 Investigation 3: Using Spinners to Predict Chances, 22-28 Investigation 4: Theoretical Probabilities, 29-41 Investigation 5: Analyzing Games of Chance, 42-48 Investigation 6: More About Games of Chance, 49-56 Investigation 7: Probability and Genetics, 57-64</p>

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<p>¥ Construct, read, and interpret tables, charts, and graphs.</p>	<p><u>Prime Time</u> Investigation 6: The Locker Problem, 58-64</p> <p><u>Data About Us</u> Investigation 1: Looking at Data, 6-21 Investigation 2: Types of Data, 22-29 Investigation 3: Using Graphs to Group Data, 30-41 Investigation 4: Coordinate Graphs, 42-52 Investigation 5: What Do We Mean by <i>Mean?</i>, 53-67</p> <p><u>Bits and Pieces I</u> Investigation 1: Fund-Raising Fractions, 5-18</p> <p><u>How Likely Is It?</u> Investigation 1: A First Look at Chance, 5-13 Investigation 2: More Experiments with Chance, 14-21 Investigation 3: Using Spinners to Predict Chances, 22-28 Investigation 4: Theoretical Probabilities, 29-41 Investigation 5: Analyzing Games of Chance, 42-48 Investigation 6: More About Games of Chance, 49-56 Investigation 7: Probability and Genetics, 57-64</p>

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<p>¥ Make inferences and convincing arguments that are based on data analysis.</p>	<p><u>Data About Us</u> Investigation 1: Looking at Data, 6-21 Investigation 2: Types of Data, 22-29 Investigation 3: Using Graphs to Group Data, 30-41 Investigation 4: Coordinate Graphs, 42-52 Investigation 5: What Do We Mean by <i>Mean?</i>, 53-67</p>
<p>¥ Evaluate arguments that are based on data analysis.</p>	<p><u>Data About Us</u> Investigation 1: Looking at Data, 6-21 Investigation 2: Types of Data, 22-29 Investigation 3: Using Graphs to Group Data, 30-41 Investigation 4: Coordinate Graphs, 42-52 Investigation 5: What Do We Mean by <i>Mean?</i>, 53-67</p>
<p>¥ Develop and explain why statistical methods are powerful aids for decision making.</p>	<p><u>Data About Us</u> Investigation 1: Looking at Data, 6-21 Investigation 2: Types of Data, 22-29 Investigation 3: Using Graphs to Group Data, 30-41 Investigation 4: Coordinate Graphs, 42-52 Investigation 5: What Do We Mean by <i>Mean?</i>, 53-67</p>

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Probability	
<p>¥ Model situations by devising and carrying out experiments or simulations to determine probabilities.</p>	<p><u>How Likely Is It?</u> Investigation 1: A First Look at Chance, 5-13 Investigation 2: More Experiments with Chance, 14-21 Investigation 3: Using Spinners to Predict Chances, 22-28 Investigation 5: Analyzing Games of Chance, 42-48 Investigation 6: More About Games of Chance, 49-56</p>
<p>¥ Construct a sample space to determine probabilities.</p>	<p><u>How Likely Is It?</u> Investigation 4: Theoretical Probabilities, 29-41 Investigation 5: Analyzing Games of Chance, 42-48 Investigation 6: More About Games of Chance, 49-56 Investigation 7: Probability and Genetics, 57-64</p>
<p>¥ Describe the power of using a probability model by comparing experimental results with mathematical expectations.</p>	<p><u>How Likely Is It?</u> Investigation 4: Theoretical Probabilities, 29-41 Investigation 5: Analyzing Games of Chance, 42-48 Investigation 6: More About Games of Chance, 49-56 Investigation 7: Probability and Genetics, 57-64</p>
<p>¥ Make predictions that are based on experimental or theoretical probabilities and determine their reasonableness.</p>	<p><u>How Likely Is It?</u> Investigation 4: Theoretical Probabilities, 29-41 Investigation 5: Analyzing Games of Chance, 42-48 Investigation 6: More About Games of Chance, 49-56 Investigation 7: Probability and Genetics, 57-64</p>

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¥ Develop and explain an appreciation for the pervasive use of probability in the real world.	<u>How Likely Is It?</u> Investigation 1: A First Look at Chance, 5-13 Investigation 2: More Experiments with Chance, 14-21 Investigation 3: Using Spinners to Predict Chances, 22-28 Investigation 4: Theoretical Probabilities, 29-41 Investigation 5: Analyzing Games of Chance, 42-48 Investigation 6: More About Games of Chance, 49-56 Investigation 7: Probability and Genetics, 57-64
STRAND 1: NUMBER SENSE	
Number and Number Relationships	
¥ Apply number sense to estimate and choose appropriate forms of numbers for various purposes. (sample question 1)	<u>Bits and Pieces I</u> Investigation 1: Fund-Raising Fractions, 5-18 <u>Bits and Pieces II</u> Investigation 1: Using Percents, 5-17 for scientific notation, see Grade 7 unit: <u>Data Around Us</u> Investigation 4: How Many is a Million?, 38-50
¥ Identify and use appropriate representations of numbers, e.g., Number lines. (sample question 2)	<u>Bits and Pieces I</u> Investigation 2: Comparing Fractions, 19-30

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¥ Recognize and use equivalent forms of integers, fractions, decimals, percents, exponents, and scientific notation. (sample question 4)	<u>Bits and Pieces II</u> Investigation 1: Using Percents, 5-17 Investigation 2: More About Percents, 18-30
¥ Use ratio, proportion, and percent to analyze a variety of problem-solving situations.(sample questions 3, 4)	<u>Bits and Pieces II</u> Investigation 1: Using Percents, 5-17 Investigation 2: More About Percents, 18-30
Number Systems and Number Theory	
¥ 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)	<u>Bits and Pieces II</u> Investigation 4: Adding and Subtracting Fractions, 43-53
¥ 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>Bits and Pieces II</u> Investigation 5: Finding Areas and Other Products, 54-63
¥ 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>Bits and Pieces I</u> Investigation 2: Comparing Fractions, 19-30

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¥ Factor numbers into component parts, e.g., Prime factorizations. (sample question 8)	<u>Prime Time</u> Investigation 3: Factor Pairs, 26-35 Investigation 4: Common Factors and Multiples, 36-45 Investigation 5: Factorizations, 46-57
¥ Analyze relationships among numbers, e.g., Relationships involving factors, multiples, and divisibility. (samples questions 6, 8)	<u>Prime Time</u> Investigation 1: The Factor Game, 5-16 Investigation 2: The Product Game, 17-25 Investigation 3: Factor Pairs, 26-35 Investigation 4: Common Factors and Multiples, 36-45 Investigation 5: Factorizations, 46-57
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>Prime Time</u> Investigation 3: Factor Pairs, 26-35 Investigation 4: Common Factors and Multiples, 36-45 <u>Covering and Surrounding</u> Investigation 3: Constant Area, Changing Perimeter, 29-34 Investigation 4: Constant Perimeter, Changing Area, 35-45 <u>Bits and Pieces II</u> Investigation 4: Adding and Subtracting Fractions, 43-53 Investigation 5: Finding Areas and Other Products, 54-63 Investigation 6: Computing with Decimals, 64-76

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¥ Use efficient strategies to estimate sums, differences, product, and quotients, as well as square roots of whole numbers, e.g., $\sqrt{17}$. (sample question 11)	<u>Bits and Pieces II</u> Investigation 3: Estimating with Fractions and Decimals, 31-42
¥ Apply the correct order of operations. (sample question 16)	<u>Bits and Pieces II</u> Investigation 4: Adding and Subtracting Fractions, 43-53 Investigation 5: Finding Areas and Other Products, 54-63 Investigation 6: Computing with Decimals, 64-76 see Grade 8 unit: <u>Say It with Symbols</u> Investigation 1: Order of Operations, 5-19

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<p>¥ Use estimation to check the reasonableness of solutions to problems.</p>	<p><u>Bits and Pieces I</u> Investigation 3: Cooking with Fractions, 31-38 Investigation 4: From Fractions to Decimals, 39-52 Investigation 5: Moving Between Fractions and Decimals, 53-66 Investigation 6: Out of One Hundred, 67-83</p> <p><u>Covering and Surrounding</u> Investigation 1: Measuring Area and Perimeter, 6-18 Investigation 3: Constant Area, Changing Perimeter, 29-34</p> <p><u>How Likely Is It?</u> Investigation 1: A First Look at Chance, 5-13 Investigation 2: More Experiments with Chance, 14-21 Investigation 3: Using Spinners to Predict Chances, 22-28 Investigation 4: Theoretical Probabilities, 29-41 Investigation 7: Probability and Genetics, 57-64</p> <p><u>Bits and Pieces II</u> Investigation 1: Using Percents, 5-17 Investigation 2: More About Percents, 18-30 Investigation 3: Estimating with Fractions and Decimals, 31-42 Investigation 4: Adding and Subtracting Fractions, 43-53 Investigation 5: Finding Areas and Other Products, 54-63 Investigation 6: Computing with Decimals, 64-76</p>

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Ratio, Proportion, Percent (strand)	
<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>Shapes and Designs</u> Investigation 4: Polygon Properties and Tiling, 42-50</p> <p><u>Bits and Pieces I</u> Investigation 1: Fund-Raising Fractions, 5-18 Investigation 2: Comparing Fractions, 19-30 Investigation 6: Out of One Hundred, 67-83</p> <p><u>Bits and Pieces II</u> Investigation 1: Using Percents, 5-17 Investigation 2: More About Percents, 18-30 Investigation 4: Adding and Subtracting Fractions, 43-53 see Grade 7 unit: <u>Comparing and Scaling</u></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>Prime Time</u> Investigation 3: Factor Pairs, 26-35 Investigation 6: The Locker Problem, 58-64</p> <p><u>Data About Us</u> Investigation 1: Looking at Data, 6-21 Investigation 4: Coordinate Graphs, 42-52</p> <p><u>Shapes and Designs</u> Investigation 4: Polygon Properties and Tiling, 42-50</p> <p><u>Covering and Surrounding</u> Investigation 5: Measuring Parallelograms, 46-55 Investigation 6: Measuring Triangles, 56-68</p>
<p>¥ Determine the rules or general terms for patterns of the types described above. (sample question 29)</p>	<p><u>Prime Time</u> Investigation 3: Factor Pairs, 26-35</p>
<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>Data About Us</u> Investigation 1: Looking at Data, 6-21 Investigation 2: Types of Data, 22-29 Investigation 3: Using Graphs to Group Data, 30-41 Investigation 4: Coordinate Graphs, 42-52</p>

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¥ Describe how a change in one variable affects another in a functional relationship that is presented with word or pictures. (sample question 25)	<u>Covering and Surrounding</u> Investigation 3: Constant Area, Changing Perimeter, 29-34 Investigation 4: Constant Perimeter, Changing Area, 35-45
Algebra	
¥ Evaluate algebraic expressions for given values of variables (substitution). (sample question 33)	(preparation) <u>Bits and Pieces II</u> Investigation 4: Adding and Subtracting Fractions, 43-53 Investigation 5: Finding Areas and Other Products, 54-63 Investigation 6: Computing with Decimals, 64-76 see Grade 7 unit: <u>Variables and Patterns</u>
¥ Solve linear equations with one variable. (sample question 32)	(preparation) <u>Bits and Pieces II</u> Investigation 4: Adding and Subtracting Fractions, 43-53 Investigation 5: Finding Areas and Other Products, 54-63 Investigation 6: Computing with Decimals, 64-76 see Grade 7 unit: <u>Moving Straight Ahead</u>
¥ Graph on a coordinate plane. (sample question 34)	<u>Data About Us</u> Investigation 4: Coordinate Graphs, 42-52

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<p>¥ Describe and represent relationships with algebraic expressions and equations. (sample questions 30, 34)</p>	<p>(preparation) <u>Covering and Surrounding</u> Investigation 3: Constant Area, Changing Perimeter, 29-34 Investigation 4: Constant Perimeter, Changing Area, 35-45 see Grade 7 unit: Variables and Patterns</p>
<p>¥ Describe and represent relationships with inequalities. (sample question 31)</p>	<p>(preparation) <u>Covering and Surrounding</u> Investigation 3: Constant Area, Changing Perimeter, 29-34 Investigation 4: Constant Perimeter, Changing Area, 35-45 see Grade 7 unit: <u>Variables and Patterns</u></p>
<p>¥ Describe how a change in one variable affects another variable in a functional relationship represented by an equation.</p>	<p>(preparation) <u>Covering and Surrounding</u> Investigation 3: Constant Area, Changing Perimeter, 29-34 Investigation 4: Constant Perimeter, Changing Area, 35-45 see Grade 7 unit: <u>Variables and Patterns</u></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>Shapes and Designs</u> Investigation 2: Building Polygons, 15-21 <u>Covering and Surrounding</u> Investigation 5: Measuring Parallelograms, 46-55</p>

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<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>Shapes and Designs</u> Investigation 3: Polygons and Angles, 22-41 Investigation 4: Polygon Properties and Tiling, 42-50</p>
<p>¥ Identify congruent and similar figures and use their properties.</p>	<p><u>Shapes and Designs</u> Investigation 1: Bees and Polygons, 8-14 Investigation 5: Side-Angle-Shape Connections, 51-63 <u>Ruins of Montarek</u> Investigation 1: Building Plans, 7-25 Investigation 3: Describing Unique Buildings, 40-51 see Grade 7 unit: <u>Stretching and Shrinking</u></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>Shapes and Designs</u> Investigation 4: Polygon Properties and Tiling, 42-50 <u>Ruins of Montarek</u> Investigation 1: Building Plans, 7-25</p>
<p>¥ Identify properties of parallel, perpendicular, and intersecting lines and their resulting angles. (sample question 37)</p>	<p><u>Shapes and Designs</u> Investigation 2: Building Polygons, 15-21 Investigation 3: Polygons and Angles, 22-41</p>

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<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>Shapes and Designs</u> Investigation 5: Side-Angle-Shape Connections, 51-63 Investigation 6: Turtle Tracks, 64-75 see Grade 7 unit: <u>Stretching and Shrinking</u></p>
<p>¥ Explain the concepts of pi and the Pythagorean theorem.</p>	<p><u>Covering and Surrounding</u> Investigation 7: Going Around in Circles, 69-81 see Grade 8 unit: <u>Looking for Pythagoras</u></p>
Measurement (substrand)	
<p>¥ Use appropriate tools to measure with reasonable accuracy and apply those measurements.</p>	<p><u>Shapes and Designs</u> Investigation 3: Polygons and Angles, 22-41 <u>Covering and Surrounding</u> Investigation 1: Measuring Area and Perimeter, 6-18 Investigation 2: Measuring Odd Shapes, 19-28 Investigation 5: Measuring Parallelograms, 46-55 Investigation 6: Measuring Triangles, 56-68</p>
<p>¥ Estimate length, capacity, weight, and mass. (sample question 41)</p>	<p><u>Data About Us</u> Investigation 4: Coordinate Graphs, 42-52 <u>Covering and Surrounding</u> Investigation 1: Measuring Area and Perimeter, 6-18</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>Shapes and Designs</u> Investigation 3: Polygons and Angles, 22-41</p> <p><u>Covering and Surrounding</u> Investigation 1: Measuring Area and Perimeter, 6-18 Investigation 2: Measuring Odd Shapes, 19-28 Investigation 5: Measuring Parallelograms, 46-55 Investigation 6: Measuring Triangles, 56-68</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>Data About Us</u> Investigation 3: Using Graphs to Group Data, 30-41</p> <p><u>Bits and Pieces II</u> Investigation 6: Computing with Decimals, 64-76</p>
<p>¥ Solve problems involving rates. (sample question 42)</p>	<p><u>Data About Us</u> Investigation 3: Using Graphs to Group Data, 30-41</p> <p><u>Bits and Pieces I</u> Investigation 3: Cooking with Fractions, 31-38</p> <p><u>Bits and Pieces II</u> Investigation 1: Using Percents, 5-17 Investigation 6: Computing with Decimals, 64-76</p>

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CURRICULUM FRAMEWORK LEARNING STANDARDS	PAGE(S) WHERE TAUGHT (If submission is not a book, cite appropriate location(s))
Geometric Measurement (substrand)	
¥ Estimate measure of angles.	<u>Shapes and Designs</u> Investigation 3: Polygons and Angles, 22-41
¥ Estimate areas of irregular figures using grids or rulers.	<u>Covering and Surrounding</u> Investigation 2: Measuring Odd Shapes, 19-28
¥ Find perimeter, circumference, area, surface area, and volume. (sample question 44)	<u>Covering and Surrounding</u> Investigation 3: Constant Area, Changing Perimeter, 29-34 Investigation 4: Constant Perimeter, Changing Area, 35-45 Investigation 5: Measuring Parallelograms, 46-55 Investigation 6: Measuring Triangles, 56-68 Investigation 7: Going Around in Circles, 69-81 <u>Bits and Pieces II</u> Investigation 5: Finding Areas and Other Products, 54-63
¥ 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)	<u>Covering and Surrounding</u> Investigation 3: Constant Area, Changing Perimeter, 29-34 Investigation 4: Constant Perimeter, Changing Area, 35-45 Investigation 5: Measuring Parallelograms, 46-55 Investigation 6: Measuring Triangles, 56-68 Investigation 7: Going Around in Circles, 69-81 <u>Bits and Pieces II</u> Investigation 5: Finding Areas and Other Products, 54-63

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¥ Solve problems involving indirect measurements, e.g., Problems requiring use of the pythagorean theorem and similar triangles. (sample question 46)	<u>Covering and Surrounding</u> Investigation 6: Measuring Triangles, 56-68 see Grade 8 unit: <u>Looking for Pythagoras</u>
STRAND 4: STATISTICS AND PROBABILITY	
Statistics	
¥ Read and interpret data from bar, line, and circle graphs, pictographs, and scatter plots. (sample question 50)	<u>Data About Us</u> Investigation 1: Looking at Data, 6-21 Investigation 2: Types of Data, 22-29 Investigation 3: Using Graphs to Group Data, 30-41 Investigation 4: Coordinate Graphs, 42-52
¥ Draw conclusions and evaluate arguments based on data present in tables, charts, graphs, and advertisements. (sample question 49)	<u>Data About Us</u> Investigation 1: Looking at Data, 6-21 Investigation 2: Types of Data, 22-29 Investigation 3: Using Graphs to Group Data, 30-41 Investigation 4: Coordinate Graphs, 42-52 Investigation 5: What Do We Mean by <i>Mean?</i> , 53-67
¥ Design surveys, e.g., How the sample should be chosen, what questions should be asked, how the data should be aggregated and reported.	<u>Data About Us</u> Investigation 2: Types of Data, 22-29 Investigation 3: Using Graphs to Group Data, 30-41 Investigation 5: What Do We Mean by <i>Mean?</i> , 53-67

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<p>¥ Construct graphs appropriate to the type of data to be represented. (sample question 48)</p>	<p><u>Data About Us</u> Investigation 1: Looking at Data, 6-21 Investigation 2: Types of Data, 22-29 Investigation 3: Using Graphs to Group Data, 30-41 Investigation 4: Coordinate Graphs, 42-52</p>
<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>Data About Us</u> Investigation 1: Looking at Data, 6-21 Investigation 2: Types of Data, 22-29 Investigation 3: Using Graphs to Group Data, 30-41 Investigation 5: What Do We Mean by <i>Mean?</i>, 53-67</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>How Likely Is It?</u> Investigation 5: Analyzing Games of Chance, 42-48 Investigation 6: More About Games of Chance, 49-56 Investigation 7: Probability and Genetics, 57-64</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>How Likely Is It?</u> Investigation 4: Theoretical Probabilities, 29-41 Investigation 5: Analyzing Games of Chance, 42-48</p>

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¥ Determine empirical probabilities based on given data. (sample question 53)	<u>How Likely Is It?</u> Investigation 1: A First Look at Chance, 5-13 Investigation 2: More Experiments with Chance, 14-21 Investigation 3: Using Spinners to Predict Chances, 22-28
¥ Make predictions and draw conclusions based on counting procedures and probability. (sample question 55)	<u>How Likely Is It?</u> Investigation 5: Analyzing Games of Chance, 42-48 Investigation 6: More About Games of Chance, 49-56 Investigation 7: Probability and Genetics, 57-64

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