

**Northpoint Horizons' *Math Elevations*<sup>TM</sup> Correlated to  
CSCOPE  
Grade 8**

This document provides a correlation to the extensive math directives offered throughout the *Math Elevations* program that meet CSCOPE lessons.

<b>CSCOPE Lessons</b>	<b><i>Math Elevations</i> Level H Teacher's Guide Examples/Lessons</b>
<b>Unit 1: Rational Numbers</b>	
8.1 A compare and order rational numbers in various forms including integers, percents, and positive and negative fractions and decimals	Unit 1 Lesson 1: <i>Integers and Absolute Value</i> , pp. 18–20 Unit 4 Lesson 4: <i>Fractions, Decimals and Percents</i> , pp. 114–116
8.7 D locate and name points on a coordinate plane using ordered pairs of rational numbers	Unit 6 Lesson 6: <i>Similarity and Dilations</i> , pp. 177–179 Lesson 7: <i>Reflections and Translations in the Coordinate Plane</i> , pp. 180–183 Lesson 8: <i>Rotations in the Coordinate Plane</i> , pp. 184–186
<b>Unit 2: Operations and Applications with Rational Numbers including Measurement-Perimeter, Area, Circumference, and Volume</b>	
8.1B select and use appropriate forms of rational numbers to solve real-life problems including those involving proportional relationships	Lesson 1: <i>Integers and Absolute Value</i> , pp. 18–20 Lesson 2: <i>Adding Integers Using a Number Line</i> , pp. 21–23 Unit 4 Lesson 1: <i>Ratios and Rates</i> , pp. 104–107 Lesson 2: <i>Writing and Solving Proportions</i> , pp. 108–110
8.2 A select appropriate operations to solve problems involving rational	Unit 1

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<p>numbers and justify the selections</p> <p>B use appropriate operations to solve problems involving rational numbers in problem situations</p> <p>C evaluate a solution for reasonableness</p>	<p>Lesson 2: <i>Adding Integers Using a Number Line</i>, pp. 21–23</p> <p>Lesson 3: <i>Adding Integers Using Absolute Value</i>, pp. 24–27</p> <p>Lesson 4: <i>Subtracting Integers</i>, pp. 28–30</p> <p>Lesson 5: <i>Multiplying Integers</i>, pp. 31–33</p> <p>Lesson 6: <i>Dividing Integers</i>, pp. 34–36</p> <p>Unit 2</p> <p>Lesson 4: <i>Adding and Subtracting Fractions</i>, pp. 55–57</p> <p>Lesson 5: <i>Multiplying and Dividing Fractions and Mixed Numbers</i>, pp. 58–61</p>
<p>8.4 generate a different representation of data given another representation of data (such as a table, graph, equation, or verbal description)</p>	<p>Unit 5</p> <p>Lesson 4: <i>Relations and Functions</i>, pp. 141–143</p> <p>Lesson 5: <i>Two-Variable Equations</i>, pp. 144–146</p> <p>Lesson 6: <i>Graphing Linear Functions</i>, pp. 147–150</p> <p>Lesson 7: <i>Interpreting Linear Functions</i>, pp. 151–153</p>
<p>8.7 B use geometric concepts and properties to solve problems in fields such as art and architecture</p>	<p>Lesson 2: <i>Angles in Parallel Lines Cut by a Transversal</i>, pp. 164–166</p> <p>Lesson 4: <i>Sum of Angles in Polygons</i>, pp. 171–173</p> <p>Lesson 6: <i>Similarity and Dilations</i>, pp. 177–179</p>
<p>8.8 C estimate measurements and use formulas to solve application problems involving lateral and total surface area and volume</p>	<p>Unit 7</p> <p>Lesson 1: <i>Area of a Trapezoid</i>, pp. 190–192</p> <p>Lesson 2: <i>Circumference of a Circle</i>, pp. 193–195</p>

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	<p>Lesson 3: <i>Area of a Circle</i>, 196–198  Lesson 4: <i>Surface Area of a Prism</i>, pp. 199–201  Lesson 5: <i>Surface Area of a Cylinder</i>, pp. 202–204  Lesson 6: <i>Surface Area of a Pyramid and a Cone</i>, pp. 205–207  Lesson 7: <i>Volume of a Prism and a Cylinder</i>, pp. 208–210  Lesson 8: <i>Volume of a Pyramid and a Cone</i>, pp. 211–213</p>
<b>Unit 3: Real Numbers</b>	
8.1C approximate (mentally and with calculators) the value of irrational numbers as they arise from problem situations (such as $+\pi$ , $\sqrt{2}$ )	<p>Unit 1  Lesson 8: <i>Square Roots</i>, pp. 40–42</p>
8.1D express numbers in scientific notation, including negative exponents, in appropriate problem situations	<p>Unit 1  Lesson 7: <i>Exponents</i>, pp. 37–39  Unit 2  Lesson 6: <i>Rules of Exponents</i>, pp. 62–64  Lesson 7: <i>Negative and Zero Exponents</i>, pp. 65–67  Lesson 8: <i>Scientific Notation</i>, pp. 68–70</p>
<b>Unit 4: Proportions</b>	
8.1B select and use appropriate forms of rational numbers to solve real-life problems including those involving proportional relationships	<p>Lesson 1: <i>Integers and Absolute Value</i>, pp. 18–20  Lesson 2: <i>Adding Integers Using a Number Line</i>, pp. 21–23  Unit 4  Lesson 1: <i>Ratios and Rates</i>, pp. 104–107  Lesson 2: <i>Writing and Solving Proportions</i>, pp. 108–</p>

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8.2D use multiplication by a constant factor (unit rate) to represent proportional relationships	Lesson 1: <i>Ratio and Rates</i> , pp. 104–107 Lesson 2: <i>Writing and Solving Proportions</i> , pp. 108–110 Lesson 3: <i>Scale Drawings and Models</i> , pp. 111–113
8.3A compare and contrast proportional and non-proportional linear relationships	Unit 3 Lesson 5: <i>Solving Equations Using Multiplication and Division</i> , pp. 87–89 Unit 4 Lesson 2: <i>Writing and Solving Proportions</i> , pp. 108–110
8.3B estimate and find solutions to application problems involving percents and other proportional relationships such as similarity and rates	Unit 4 Lesson 1: <i>Ratios and Rates</i> , pp. 104–107 Lesson 2: <i>Writing and Solving Proportions</i> , pp. 108–110 Lesson 3: <i>Scale Drawings and Models</i> , pp. 111–113 Lesson 5: <i>Solving Percent Problems Using a Proportion</i> , pp. 117–119 Lesson 6: <i>Using Proportions to Solve Other Percent Problems</i> , pp. 120–123 Lesson 7: <i>Percent of Change</i> , pp. 124–126 Lesson 8: <i>Percent Applications</i> , pp. 127–129
8.4 generate a different representation of data given another representation of data (such as a table, graph, equation, or verbal description)	Unit 5 Lesson 4: <i>Relations and Functions</i> , pp. 141–143 Lesson 5: <i>Two-Variable Equations</i> , pp. 144–146 Lesson 6: <i>Graphing Linear Functions</i> , pp. 147–150 Lesson 7: <i>Interpreting Linear Functions</i> , pp. 151–

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<b>Unit 5: Algebraic Representations</b>	
8.2A select appropriate operations to solve problems involving rational numbers and justify the selections	Unit 1 Lesson 2: <i>Adding Integers Using a Number Line</i> , pp. 21–23 Lesson 3: <i>Adding Integers Using Absolute Value</i> , pp. 24–27 Lesson 4: <i>Subtracting Integers</i> , pp. 28–30 Lesson 5: <i>Multiplying Integers</i> , pp. 31–33 Lesson 6: <i>Dividing Integers</i> , pp. 34–36 Unit 2 Lesson 4: <i>Adding and Subtracting Fractions</i> , pp. 55–57 Lesson 5: <i>Multiplying and Dividing Fractions and Mixed Numbers</i> , pp. 58–61
8.4 generate a different representation of data given another representation of data (such as a table, graph, equation, or verbal description)	Unit 5 Lesson 4: <i>Relations and Functions</i> , pp. 141–143 Lesson 5: <i>Two-Variable Equations</i> , pp. 144–146 Lesson 6: <i>Graphing Linear Functions</i> , pp. 147–150 Lesson 7: <i>Interpreting Linear Functions</i> , pp. 151–153
8.5A predict, find, and justify solutions to application problems using appropriate tables, graphs, and algebraic equations	Lesson 3: <i>Substituting Values for Variables in Formulas</i> , pp. 81–83
B find and evaluate an algebraic expression to determine any term in an	Lesson 4: <i>Solving Equations Using Addition or Subtraction</i> , pp. 84–86

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arithmetic sequence (with a constant rate of change)	Lesson 5: <i>Solving Equations Using Multiplication or Division</i> , pp. 87–89 Lesson 6: <i>Solving Inequalities by Addition and Subtraction</i> , pp. 90–93 Unit 5 Lesson 3: <i>Translating and Solving Word Problems</i> , pp. 138–140 Lesson 4: <i>Relations and Functions</i> , pp. 141–143
<b>Unit 6: Measure of Data</b>	
8.12A select the appropriate measure of central tendency or range to describe a set of data and justify the choice for a particular situation	Unit 8 Lesson 3: <i>Mean, Median, and Mode</i> , pp. 224–226
<b>Unit 7: Data Representation and Analysis</b>	
8.12B draw conclusions and make predictions by analyzing trends in scatterplots	Unit 8 Lesson 4: <i>Scatter Plots</i> , pp. 227–229
8.12C select and use an appropriate representation for presenting and displaying relationships among collected data, including line plots, line graphs, stem and leaf plots, circle graphs, bar graphs, box and whisker plots, histograms, and Venn diagrams, with and without the use of technology	Lesson 4: <i>Scatter Plots</i> , pp. 227–229 Lesson 5: <i>Box-and-Whiskers Plots</i> , pp. 230–233 Lesson 6: <i>Line Graphs</i> , pp. 234–237 Lesson 7: <i>Circle Graphs</i> , pp. 238–240 Lesson 8: <i>Appropriate Graphs</i> , pp. 241–243
8.13A evaluate methods of sampling to determine validity of an inference made from a set of data B recognize misuses of graphical or numerical information and evaluate predictions and conclusions based on data analysis	Unit 8 Lesson 4: <i>Scatter Plots</i> , pp. 227–229 Lesson 5: <i>Box-and-Whiskers Plots</i> , pp. 230–233 Lesson 6: <i>Line Graphs</i> , pp. 234–237 Lesson 7: <i>Circle Graphs</i> , pp. 238–240 Lesson 8: <i>Appropriate Graphs</i> , pp. 241–243
<b>Unit 8: Probability</b>	

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8.11A find the probabilities of dependent and independent events	Level G Unit 8 Lesson 5: <i>Dependent and Independent Events</i> , pp. 225–228
8.11B use theoretical probabilities and experimental results to make predictions and decisions; and  C select and use different models to simulate an event	Unit 8 Lesson 1: <i>Counting Methods</i> , pp. 216–219 Lesson 2: <i>Making Predictions</i> , pp. 220–223
<b>Unit 9: Pythagorean Theorem</b>	
8.7C use pictures or models to demonstrate the Pythagorean Theorem	Unit 3 Lesson 8: <i>Pythagorean Theorem</i> , pp. 98–101
8.9A use the Pythagorean Theorem to solve real-life problems	Lesson 8: <i>Pythagorean Theorem</i> , pp. 98–101
<b>Unit 10: Transformations and Similarity</b>	
8.3B estimate and find solutions to application problems involving percents and other proportional relationships such as similarity and rates	Unit 4 Lesson 1: <i>Ratios and Rates</i> , pp. 104–107 Lesson 2: <i>Writing and Solving Proportions</i> , pp. 108–110 Lesson 3: <i>Scale Drawings and Models</i> , pp. 111–113 Lesson 5: <i>Solving Percent Problems Using a Proportion</i> , 117–119 Lesson 6: <i>Using Proportions to Solve Other Percent Problems</i> , pp. 120–123 Lesson 7: <i>Percent of Change</i> , pp. 124–126 Lesson 8: <i>Percent Applications</i> , pp. 127–129
8.6A generate similar figures using dilations including enlargements	Unit 6

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and reductions	Lesson 6: <i>Similarity and Dilations</i> , pp. 177–179
8.6B graph dilations, reflections, and translations on a coordinate plane	Lesson 7: <i>Reflections and Translations in the Coordinate Plane</i> , pp. 180–183 Lesson 8: <i>Rotations in the Coordinate Plane</i> , pp. 184–186
8.9B use proportional relationships in similar two-dimensional figures or similar three-dimensional figures to find missing measurements	Lesson 6: <i>Similarity and Dilations</i> , pp. 177–179
<b>Unit 11: Perspectives</b>	
8.7A draw three-dimensional figures from different perspectives	Level G Unit 6 Lesson 8: <i>Solid Figures</i> , pp. 179–181
<b>Unit 12: Measurement-Perimeter and Area</b>	
8.2D use multiplication by a constant factor (unit rate) to represent proportional relationships	Unit 4 Lesson 1: <i>Ratio and Rates</i> , pp. 104–107 Lesson 2: <i>Writing and Solving Proportions</i> , pp. 108–110 Lesson 3: <i>Scale Drawings and Models</i> , pp. 111–113
8.7B use geometric concepts and properties to solve problems in fields such as art and architecture	Unit 6 Lesson 2: <i>Angles in Parallel Lines Cut by a Transversal</i> , pp. 164–166 Lesson 4: <i>Sum of Angles in Polygons</i> , pp. 171–173 Lesson 6: <i>Similarity and Dilations</i> , pp. 177–179
8.8A find lateral and total surface area of prisms, pyramids, and cylinders using concrete models and nets (two-dimensional models)	Unit 7 Lesson 1: <i>Area of a Trapezoid</i> , pp. 190–192 Lesson 3: <i>Area of a Circle</i> , 196–198 Lesson 4: <i>Surface Area of a Prism</i> , pp. 199–201 Lesson 5: <i>Surface Area of a Cylinder</i> , pp. 202–204

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	Lesson 6: <i>Surface Area of a Pyramid and a Cone</i> , pp. 205–207
8.8C estimate measurements and use formulas to solve application problems involving lateral and total surface area and volume	Unit 7 Lesson 1: <i>Area of a Trapezoid</i> , pp. 190–192 Lesson 3: <i>Area of a Circle</i> , pp. 196–198 Lesson 4: <i>Surface Area of a Prism</i> , pp. 199–201 Lesson 5: <i>Surface Area of a Cylinder</i> , pp. 202–204 Lesson 6: <i>Surface Area of a Pyramid and a Cone</i> , pp. 205–207 Lesson 7: <i>Volume of a Prism and a Cylinder</i> , pp. 208–210 Lesson 8: <i>Volume of a Pyramid and a Cone</i> , pp. 211–213
8.10A describe the resulting effects on perimeter and area when dimensions of a shape are changed proportionally	Unit 7 Lesson 4: <i>Surface Area of a Prism</i> , pp. 199–201 Lesson 5: <i>Surface Area of a Cylinder</i> , pp. 202–204
<b>Unit 13: Measurement-Surface Area and Volume</b>	
8.2D use multiplication by a constant factor (unit rate) to represent proportional relationships	Unit 4 Lesson 1: <i>Ratio and Rates</i> , pp. 104–107 Lesson 2: <i>Writing and Solving Proportions</i> , pp. 108–110 Lesson 3: <i>Scale Drawings and Models</i> , pp. 111–113
8.7B use geometric concepts and properties to solve problems in fields such as art and architecture	Lesson 4: <i>Sum of Angles in Polygons</i> , pp. 171–173 Lesson 6: <i>Similarity and Dilations</i> , pp. 177–179
8.8A find lateral and total surface area of prisms, pyramids, and cylinders using concrete models and nets (two-dimensional models)	Unit 7 Lesson 1: <i>Area of a Trapezoid</i> , pp. 190–192

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	<p>Lesson 3: <i>Area of a Circle</i>, 196–198  Lesson 4: <i>Surface Area of a Prism</i>, pp. 199–201  Lesson 5: <i>Surface Area of a Cylinder</i>, pp. 202–204  Lesson 6: <i>Surface Area of a Pyramid and a Cone</i>, pp. 205–207</p>
8.8B connect models of prisms, cylinders, pyramids, spheres, and cones to formulas for volume of these objects	<p>Unit 7  Lesson 7: <i>Volume of a Prism and a Cylinder</i>, pp. 208–210  Lesson 8: <i>Volume of a Pyramid and a Cone</i>, pp. 211–213</p>
8.8C estimate measurements and use formulas to solve application problems involving lateral and total surface area and volume	<p>Unit 7  Lesson 1: <i>Area of a Trapezoid</i>, pp. 190–192  Lesson 2: <i>Circumference of a Circle</i>, pp. 193–195  Lesson 3: <i>Area of a Circle</i>, 196–198  Lesson 4: <i>Surface Area of a Prism</i>, pp. 199–201  Lesson 5: <i>Surface Area of a Cylinder</i>, pp. 202–204  Lesson 6: <i>Surface Area of a Pyramid and a Cone</i>, pp. 205–207  Lesson 7: <i>Volume of a Prism and a Cylinder</i>, pp. 208–210  Lesson 8: <i>Volume of a Pyramid and a Cone</i>, pp. 211–213</p>
8.10A describe the resulting effects on perimeter and area when dimensions of a shape are changed proportionally	<p>Unit 7  Lesson 4: <i>Surface Area of a Prism</i>, pp. 199–201  Lesson 5: <i>Surface Area of a Cylinder</i>, pp. 202–204</p>
8.10B describe the resulting effect on volume when dimensions of a solid are changed proportionally	<p>Unit 7  Lesson 7: <i>Volume of a Prism and a Cylinder</i>, pp.</p>

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	208–210
<b>Unit 14: Making Connections</b>	
8.1A compare and order rational numbers in various forms including integers, percents, and positive and negative fractions and decimals	Unit 1 Lesson 1: <i>Integers and Absolute Value</i> , pp. 18–20 Unit 4 Lesson 4: <i>Fractions, Decimals and Percents</i> , pp. 114–116
8.1B select and use appropriate forms of rational numbers to solve real-life problems including those involving proportional relationships	Lesson 1: <i>Integers and Absolute Value</i> , pp. 18–20 Lesson 2: <i>Adding Integers Using a Number Line</i> , pp. 21–23 Unit 4 Lesson 1: <i>Ratios and Rates</i> , pp. 104–107 Lesson 2: <i>Writing and Solving Proportions</i> , pp. 108–110
8.7B use geometric concepts and properties to solve problems in fields such as art and architecture	Lesson 2: <i>Angles in Parallel Lines Cut by a Transversal</i> , pp. 164–166 Lesson 4: <i>Sum of Angles in Polygons</i> , pp. 171–173 Lesson 6: <i>Similarity and Dilations</i> , pp. 177–179
8.9B use proportional relationships in similar two-dimensional figures or similar three-dimensional figures to find missing measurements	Lesson 6: <i>Similarity and Dilations</i> , pp. 177–179
8.10A describe the resulting effects on perimeter and area when dimensions of a shape are changed proportionally	Unit 7 Lesson 4: <i>Surface Area of a Prism</i> , pp. 199–201 Lesson 5: <i>Surface Area of a Cylinder</i> , pp. 202–204
8.10B describe the resulting effect on volume when dimensions of a solid are changed proportionally	Unit 7 Lesson 7: <i>Volume of a Prism and a Cylinder</i> , pp.

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	208–210
<b>Unit 15: Applications with Rational Numbers</b>	Unit 8 – Probability, Statistics, and Data Analysis
8.1B select and use appropriate forms of rational numbers to solve real-life problems including those involving proportional relationships	Lesson 1: <i>Integers and Absolute Value</i> , pp. 18–20 Lesson 2: <i>Adding Integers Using a Number Line</i> , pp. 21–23 Unit 4 Lesson 1: <i>Ratios and Rates</i> , pp. 104–107 Lesson 2: <i>Writing and Solving Proportions</i> , pp. 108–110
8.3B estimate and find solutions to application problems involving percents and other proportional relationships such as similarity and rates	Lesson 1: <i>Ratios and Rates</i> , pp. 104–107 Lesson 2: <i>Writing and Solving Proportions</i> , pp. 108–110 Lesson 3: <i>Scale Drawings and Models</i> , pp. 111–113 Lesson 5: <i>Solving Percent Problems Using a Proportion</i> , pp. 117–119 Lesson 6: <i>Using Proportions to Solve Other Percent Problems</i> , pp. 120–123 Lesson 7: <i>Percent of Change</i> , pp. 124–126 Lesson 8: <i>Percent Applications</i> , pp. 127–129
<b>Unit 16: Applications with Graphing Calculator</b>	
8.1D express numbers in scientific notation, including negative exponents, in appropriate problem situations	Unit 1 Lesson 7: <i>Exponents</i> , pp. 37–39 Unit 2 Lesson 6: <i>Rules of Exponents</i> , pp. 62–64 Lesson 7: <i>Negative and Zero Exponents</i> , pp. 65–67 Lesson 8: <i>Scientific Notation</i> , pp. 68–70

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<p>8.2A select appropriate operations to solve problems involving rational numbers and justify the selections</p> <p>B use appropriate operations to solve problems involving rational numbers in problem situations</p>	<p>Unit 1 Lesson 2: <i>Adding Integers Using a Number Line</i>, pp. 21–23 Lesson 3: <i>Adding Integers Using Absolute Value</i>, pp. 24–27 Lesson 4: <i>Subtracting Integers</i>, pp. 28–30 Lesson 5: <i>Multiplying Integers</i>, pp. 31–33 Lesson 6: <i>Dividing Integers</i>, pp. 34–36 Unit 2 Lesson 4: <i>Adding and Subtracting Fractions</i>, pp. 55–57 Lesson 5: <i>Multiplying and Dividing Fractions and Mixed Numbers</i>, pp. 58–61</p>
<p>8.3A compare and contrast proportional and non-proportional linear relationships</p>	<p>Unit 3 Lesson 5: <i>Solving Equations Using Multiplication or Division</i>, pp. 87–89 Unit 4 Lesson 2: <i>Writing and Solving Proportions</i>, pp. 108–110</p>
<p>8.4 generate a different representation of data given another representation of data (such as a table, graph, equation, or verbal description)</p>	<p>Unit 5 Lesson 4: <i>Relations and Functions</i>, pp. 141–143 Lesson 5: <i>Two-Variable Equations</i>, pp. 144–146 Lesson 6: <i>Graphing Linear Functions</i>, pp. 147–150 Lesson 7: <i>Interpreting Linear Functions</i>, pp. 151–153</p>
<p>8.5 A predict, find, and justify solutions to application problems using</p>	

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<p>appropriate tables, graphs, and algebraic equations</p> <p>B find and evaluate an algebraic expression to determine any term in an arithmetic sequence (with a constant rate of change)</p>	<p>Lesson 3: <i>Substituting Values for Variables in Formulas</i>, pp. 81–83</p> <p>Lesson 5: <i>Solving Equations Using Multiplication or Division</i>, pp. 87–89</p> <p>Lesson 6: <i>Solving Inequalities by Addition and Subtraction</i>, pp. 90–93</p> <p>Unit 5</p> <p>Lesson 3: <i>Translating and Solving Word Problems</i>, pp. 138–140</p> <p>Lesson 4: <i>Relations and Functions</i>, pp. 141–143</p>
<p>8.7D locate and name points on a coordinate plane using ordered pairs of rational numbers</p>	<p>Unit 6</p> <p>Lesson 6: <i>Similarity and Dilations</i>, pp. 177–179</p> <p>Lesson 7: <i>Reflections and Translations in the Coordinate Plane</i>, pp. 180–183</p> <p>Lesson 8: <i>Rotations in the Coordinate Plane</i>, pp. 184–186</p>
<p>8.12A select the appropriate measure of central tendency or range to describe a set of data and justify the choice for a particular situation</p>	<p>Unit 8</p> <p>Lesson 3: <i>Mean, Median, and Mode</i>, pp. 224–226</p>
<p>8.12B draw conclusions and make predictions by analyzing trends in scatterplots</p>	<p>Lesson 4: <i>Scatter Plots</i>, pp. 227–229</p>
<p>8.12C select and use an appropriate representation for presenting and displaying relationships among collected data, including line plots, line graphs, stem and leaf plots, circle graphs, bar graphs, box and whisker plots, histograms, and Venn diagrams, with and without the use of technology</p>	<p>Unit 8</p> <p>Lesson 4: <i>Scatter Plots</i>, pp. 227–229</p> <p>Lesson 5: <i>Box-and-Whiskers Plots</i>, pp. 230–233</p> <p>Lesson 6: <i>Line Graphs</i>, pp. 234–237</p> <p>Lesson 7: <i>Circle Graphs</i>, pp. 238–240</p> <p>Lesson 8: <i>Appropriate Graphs</i>, pp. 241–243</p>