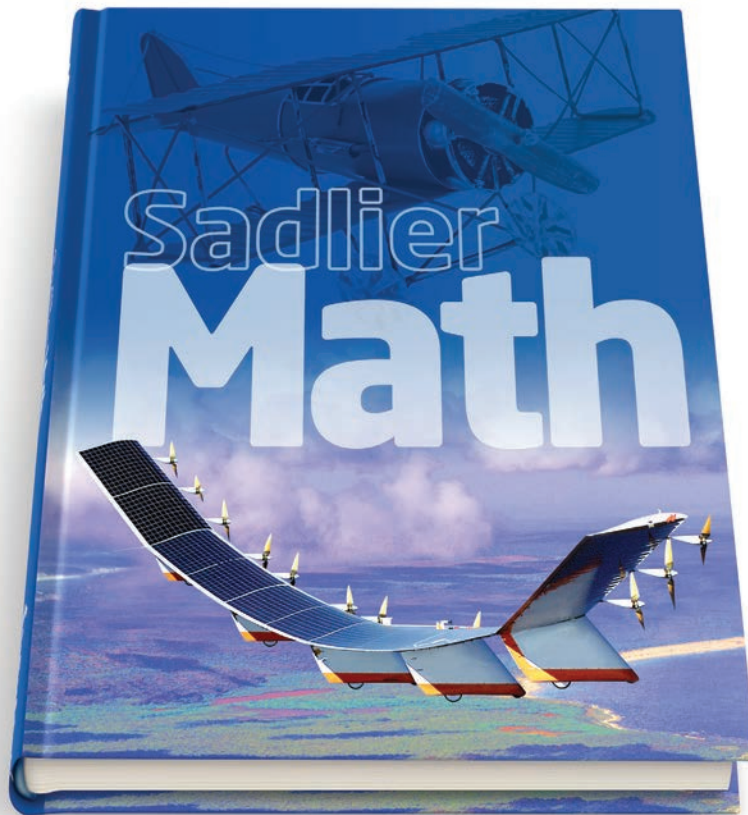


Sadlier Math™

Correlation to the Diocese of Grand Rapids
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Grade 5



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NUMBER	
Fifth Grade Mathematics Standards	Sadlier Math, Grade 5
<p>5.Math.N.1 Use the number line to locate, describe, and compare numbers less than zero.</p>	<p>Related content (readiness) Chapter 2: 2-4 <ul style="list-style-type: none"> • 2-4 Round Decimals (number line)—pp. 32-33 See Grade 6 Chapter 9: 9-1 through 9-11 <ul style="list-style-type: none"> • 9-1 Integers on the Number Line—pp. 196-197 • 9-2 Integers in the Real World—pp. 198-199 • 9-3 Compare and Order Integers—pp. 200-201 </p>
<p>5.Math.N.2 Use characteristics of numbers such as their factors, multiples, prime factorizations and relatively prime numbers to solve problems.</p>	<p>Chapter 5: 5-1 & 5-2 <ul style="list-style-type: none"> • 5-1 Factors, Primes and Composite Numbers—pp. 98-99 • 5-2 Common Factors—pp. 100-101 </p>
<p>5.Math.N.3 Develop and use strategies to estimate computations involving fractions and decimals in situations relevant to real world experiences.</p> <p>5.Math.N.4 Estimate the results of computations involving fractions and decimals by using common fractions as comparison.</p>	<p>Chapter 6: 6-3 <ul style="list-style-type: none"> • 6-3 Fraction Addition: Estimation and Reasonableness—pp. 126-127 Chapter 7: 7-5 <ul style="list-style-type: none"> • 7-5 Estimate Sums and Differences of Mixed Numbers—pp. 152-153 Chapter 10: 10-3 <ul style="list-style-type: none"> • 10-3 Estimate Decimal Sums—pp. 224-225 Chapter 11: 11-2 <ul style="list-style-type: none"> • 11-2 Estimate Decimal Differences—pp. 244-245 Chapter 12: 12-2 <ul style="list-style-type: none"> • 12-3 Estimate Decimal Products—pp. 266-267 Chapter 13: 13-3 & 13-4 <ul style="list-style-type: none"> • 13-3 Estimate Decimal Quotients—pp. 292-293 • 13-4 Estimate with Money—pp. 294-295 See related content (readiness) Chapter 2: 2-4 & 2-6 <ul style="list-style-type: none"> • 2-4 Round Decimals—pp. 32-33 • 2-6 Estimate with Decimals—pp. 36-37 </p>
<p>5.Math.N.5 Use visual models, benchmarks, and equivalent forms to add and subtract decimals.</p>	<p>Chapter 10: 10-1 through 10-7 <ul style="list-style-type: none"> • 10-1 Use Models to Add Decimals—pp. 220-221 • 10-2 Use Properties to Add Decimals—pp. 222-223 • 10-3 Estimate Decimal Sums—pp. 224-225 • 10-4 Problem Solving: Draw a Picture—pp. 228-229 • 10-5 Add Decimals: Hundredths—pp. 230-231 • 10-6 Add Decimals: Thousandths—pp. 232-233 • 10-7 Addition with Money—pp. 234-235 Chapter 11: 11-1 through 11-6 <ul style="list-style-type: none"> • 11-1 Use Models to Subtract Decimals—pp. 242-243 • 11-2 Estimate Decimal Differences—pp. 244-245 • 11-3 Subtract Decimals: Hundredths—pp. 248-249 • 11-4 Subtract Decimals: Thousandths—pp. 250-251 • 11-5 Subtraction with Money—pp. 252-253 • 11-6 Problem Solving: Use a Model—pp. 254-255 </p>

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<p>5.Math.N.6 Develop fluency with two-digit multiplication and division.</p>	<p>Chapter 3: 3-1 & 3-2, 3-4 & 3-5, 3-7 & 3-8</p> <ul style="list-style-type: none"> • 3-1 Multiplication Properties—pp. 44-45 • 3-2 Multiplication Patterns—pp. 46-47 • 3-4 Zeros in the Multiplicand—pp. 50-51 • 3-5 Multiply by Two-Digit Numbers—pp. 54-55 • 3-7 Multiply by Three-Digit Numbers—pp. 58-59 • 3-8 Zeros in the Multiplier—pp. 60-61 <p>Chapter 4: 4-3 through 4-8</p> <ul style="list-style-type: none"> • 4-3 Divide by One-Digit Numbers—pp. 72-73 • 4-4 Zeros in the Quotient—pp. 74-75 • 4-5 Divisibility and Mental Math—pp. 76-77 • 4-6 Use Arrays and Area Models to Divide—pp. 80-81 • 4-7 Use Strategies to Divide—pp. 82-83 • 4-8 Divide by Two-Digit Numbers—pp. 84-85
<p>5.Math.N.7 Add and subtract fractions, including those with uncommon denominators.</p>	<p>Chapter 6: 6-1 through 6-4, 6-6</p> <ul style="list-style-type: none"> • 6-1 Model Addition with Unlike Denominators—pp. 122-123 • 6-2 Add Fractions: Unlike Denominators—pp. 124-125 • 6-3 Fraction Addition: Estimation and Reasonableness—pp. 126-127 • 6-4 Add Mixed Numbers—pp. 130-131 • 6-6 Rename Mixed Number Sums—pp. 134-135 <p>Chapter 7: 7-1 through 7-4, 7-6 through 7-8</p> <ul style="list-style-type: none"> • 7-1 Model Subtraction of Fractions with Unlike Denominators—pp. 142-143 • 7-2 Subtract Fractions: Unlike Denominators—pp. 144-145 • 7-3 Subtract Fractions: Estimation and Reasonableness—pp. 146-147 • 7-4 Model Subtraction with Mixed Numbers—pp. 150-151 • 7-6 Subtract Fractions and Whole Numbers from Mixed Numbers—pp. 154-155 • 7-7 Subtract Mixed Numbers: Rename Fractions—pp. 156-157 • 7-8 Subtract Mixed Numbers: Rename Whole Numbers and Fractions—pp. 158-159
<p>5.Math.N.8 Determine multiple strategies to use in solving complex problems.</p> <p>5.Math.N.9 Solve problems that involve any combination of addition, subtraction, multiplication and division, including problems that may have multiple solutions.</p>	<p>Problem Solving Strategies</p> <ul style="list-style-type: none"> • Use a Model—p. xxvii • Work Backward—p. xxviii • Use Logical Reasoning—p. xxix • Draw a Picture—p. xxx • Write and Solve an Equation—p. xxxi • Make an Organized List—p. xxxii <p>Chapter 1: 1-4</p> <ul style="list-style-type: none"> • 1-4 Problem Solving: The Four-Step Process—pp. 10-11 <p>Chapter 2: 2-5</p> <ul style="list-style-type: none"> • 2-5 Problem Solving: Use Logical Reasoning—pp. 34-35 <p>Chapter 3: 3-6</p> <ul style="list-style-type: none"> • 3-6 Problem Solving: Guess and Test—pp. 56-57 <p>Chapter 4: 4-9</p> <ul style="list-style-type: none"> • 4-9 Problem Solving: Work Backward—pp. 86-87 <p>Chapter 5: 5-5</p> <ul style="list-style-type: none"> • 5-5 Problem Solving: Make a Table—pp. 108-109 <p style="text-align: right;"><i>continued</i></p>

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	<p>Chapter 6: 6-5</p> <ul style="list-style-type: none"> 6-5 Problem Solving: Use a Model—pp. 132-133 <p>Chapter 7: 7-9</p> <ul style="list-style-type: none"> 7-9 Problem Solving: Write and Solve an Equation—pp. 160-161 <p>Chapter 8: 8-11</p> <ul style="list-style-type: none"> 8-11 Problem Solving: Use Logical Reasoning—pp. 190-191 <p>Chapter 9: 9-7</p> <ul style="list-style-type: none"> 9-7 Problem Solving: More Than One Way—pp. 212-213 <p>Chapter 10: 10-4</p> <ul style="list-style-type: none"> 10-4 Problem Solving: Draw a Picture—pp. 228-229 <p>Chapter 11: 11-6</p> <ul style="list-style-type: none"> 11-6 Problem Solving: Use a Model—pp. 254-255 <p>Chapter 12: 12-9</p> <ul style="list-style-type: none"> 12-9 Problem Solving: More Than One Way—pp. 280-281 <p>Chapter 13: 13-8</p> <ul style="list-style-type: none"> 13-8 Problem Solving: Work Backward—pp. 304-305 <p>Chapter 14: 14-9</p> <ul style="list-style-type: none"> 14-9 Problem Solving: Use a Picture—pp. 334-335 <p>Chapter 15: 15-5</p> <ul style="list-style-type: none"> 15-5 Problem Solving: Use a Model—pp. 352-353 <p>Chapter 16: 16-6</p> <ul style="list-style-type: none"> 16-6 Problem Solving: Act It Out—pp. 372-373 <p>Chapter 17: 17-7</p> <ul style="list-style-type: none"> 17-7 Problem Solving: Find and Use a Pattern—pp. 394-395
ALGEBRA	
Fifth Grade Mathematics Standards	Sadlier Math, Grade 5
<p>5.Math.A.1 Express mathematical relationships using equations, including those with variables and parentheses.</p>	<p>Chapter 4: 4-10 & 4-11</p> <ul style="list-style-type: none"> 4-10 Order of Operations—pp. 88-89 4-11 Expressions—pp. 90-91 <p>Chapter 7: 7-9</p> <ul style="list-style-type: none"> 7-9 Problem Solving: Write and Solve an Equation—pp. 160-161
<p>5.Math.A.2 Represent and analyze patterns and functions using words, tables, and graphs.</p>	<p>Problem Solving Math Practices</p> <ul style="list-style-type: none"> Look for a pattern—p. xxvi <p>Chapter 3: 3-2</p> <ul style="list-style-type: none"> 3-2 Multiplication Patterns—pp. 46-47 <p>Chapter 4: 4-1</p> <ul style="list-style-type: none"> 4-1 Division Patterns—pp. 68-69 <p>Chapter 17: 17-5</p> <ul style="list-style-type: none"> 17-5 Write Number Patterns—pp. 390-391

ALGEBRA	
Fifth Grade Mathematics Standards	Sadlier Math, Grade 5
<p>5.Math.A.3 Describe how a change in one variable relates to a change in a second variable.</p>	<p>See Grade 6</p> <p>Chapter 13: 13-1 through 13-4</p> <ul style="list-style-type: none"> • 13-1 Related Quantities—pp. 298-299 • 13-2 Relationships in Words and Tables—pp. 300-301 • 13-3 Relationships in Equations and Graphs—pp. 302-303 • 13-4 Multiple Representations of a Relationship—pp. 306-307
GEOMETRY	
Fifth Grade Mathematics Standards	Sadlier Math, Grade 5
<p>5.Math.G.1 Make and use coordinate systems to specify locations and to describe paths, using the terms ordered pair, x-axis, y-axis, x-coordinate, y-coordinate as appropriate.</p>	<p>Chapter 17: 17-3 & 17-4</p> <ul style="list-style-type: none"> • 17-3 The Coordinate Plane—pp. 386-387 • 17-4 Using Coordinate Graphs—pp. 388-389
<p>5.Math.G.2 Develop a model to describe the area of a triangle.</p>	<p>Related content (readiness)</p> <p>Chapter 8: 8-10</p> <ul style="list-style-type: none"> • 8-10 Find the Area of a Rectangle—pp. 188-189 <p>See Grade 6</p> <p>Chapter 14: 14-2</p> <ul style="list-style-type: none"> • 14-2 Areas of Triangles—pp. 318-319
<p>5.Math.G.3 Find the distance between points along horizontal and vertical lines of a coordinate system.</p>	<p>See Grade 6</p> <p>Chapter 9: 9-9</p> <ul style="list-style-type: none"> • 9-9 Distance on the Coordinate Plane—pp. 214-215
<p>5.Math.G.4 Describe 2D shapes based on their geometric properties, including measurements and characteristics of sides and angles and comparisons of shapes for congruence and similarity.</p>	<p>Chapter 15: 15-4</p> <ul style="list-style-type: none"> • 15-4 Classify Quadrilaterals—pp. 350-351

MEASUREMENT	
Fifth Grade Mathematics Standards	Sadlier Math, Grade 5
<p>5.Math.M.1 Convert measurements of distance, weight, and volume from one standard unit to another.</p>	<p>Chapter 14: 14-1 through 14-8</p> <ul style="list-style-type: none"> • 14-1 Relate Customary Units of Length—pp. 316–317 • 14-2 Relate Customary Units of Capacity—pp. 318–319 • 14-3 Relate Customary Units of Weight—pp. 320–321 • 14-4 Compute with Customary Units—pp. 322–323 • 14-5 Relate Metric Units of Length—pp. 326–327 • 14-6 Relate Metric Units of Capacity—pp. 328–329 • 14-7 Relate Metric Units of Mass—pp. 330–331 • 14-8 Compute with Metric Units—pp. 332–333
<p>5.Math.M.2 Develop and use formulas to find the areas of rectangles and related triangles and parallelograms.</p>	<p>Chapter 8: 8-10</p> <ul style="list-style-type: none"> • 8-10 Find the Area of a Rectangle—pp. 188–189 <p>See Grade 6</p> <p>Chapter 14: 14-1 & 14-2</p> <ul style="list-style-type: none"> • 14-1 Areas of Parallelograms and Rhombuses—pp. 316–317 • 14-2 Areas of Triangles—pp. 318–319
<p>5.Math.M.3 Develop strategies to determine the surface areas and volumes of rectangular solids.</p>	<p>Chapter 16: 16-2 through 16-5</p> <ul style="list-style-type: none"> • 16-2 Cubic Measure—pp. 362–363 • 16-3 Volume of Rectangular Prisms—pp. 364–365 • 16-4 Volume Formulas—pp. 368–369 • 16-5 Volume of Composite Figures—pp. 370–371 <p>See Grade 6 (surface area)</p> <p>Chapter 15: 15-1 through 15-3</p> <ul style="list-style-type: none"> • 15-1 Nets of Three-Dimensional Figures—pp. 338–339 • 15-2 Use Nets to Find Surface Areas of Prisms—pp. 340–341 • 15-3 Use Nets to Find Surface Areas of Pyramids—pp. 342–343
DATA ANALYSIS	
Fifth Grade Mathematics Standards	Sadlier Math, Grade 5
<p>5.Math.D.1 Represent and interpret data using tables and graphs including line plots, bar graphs, and line graphs.</p>	<p>Chapter 5: 5-5</p> <ul style="list-style-type: none"> • 5-5 Problem Solving: Make a Table—pp. 108–109 <p>Chapter 17: 17-1 & 17-2</p> <ul style="list-style-type: none"> • 17-1 Line Plots with Whole Numbers and Decimals—pp. 380–381 • 17-2 Line Plots with Fractions and Mixed Numbers—pp. 382–383 <p>See also Grade 3</p> <p>Chapter 12: 12-1 through 12-8</p> <ul style="list-style-type: none"> • 12-1 Read Picture Graphs—pp. 252–253 • 12-2 Make Picture Graphs—pp. 254–255 • 12-3 Read Bar Graphs—pp. 256–257 • 12-4 Make Bar Graphs—pp. 258–259 • 12-5 Data and Two-Step Problems—pp. 260–261 • 12-6 Problem Solving: Use a Model—pp. 264–265 • 12-7 Read Line Plots—pp. 266–267 • 12-8 Make Line Plots—pp. 268–269 <p style="text-align: right;"><i>continued</i></p>

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DATA ANALYSIS	
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	<p>See also Grade 4</p> <p>Chapter 15: 15-5 through 15-8</p> <ul style="list-style-type: none"> • 15-5 Line Graphs—pp. 334–335 • 15-6 Line Plots—pp. 336–337 • 15-7 Surveys and Line Plots—pp. 338–339 • 15-8 Choose an Appropriate Display—pp. 340–341
<p>5.Math.D.2 Compare different representations of the same data and evaluate how well each representation shows important aspects of the data.</p>	<p>Chapter 17: 17-1</p> <ul style="list-style-type: none"> • 17-1 Line Plots with Whole Numbers and Decimals—pp. 380–381 <p>See also Grade 4</p> <p>Chapter 15: 15-8</p> <ul style="list-style-type: none"> • 15-8 Choose an Appropriate Display—pp. 340–341 <p>See also Grade 6</p> <p>Chapter 17: 17-6</p> <ul style="list-style-type: none"> • 17-6 Problem Solving: Compare Models—pp. 390–391
<p>5.Math.D.3 Describe events as likely or unlikely and discuss the likelihood of using a number from 0 to 1.</p>	<p>See Grade 6</p> <p>Chapter 18: 18-3</p> <ul style="list-style-type: none"> • 18-3 Probability and Likelihood—online