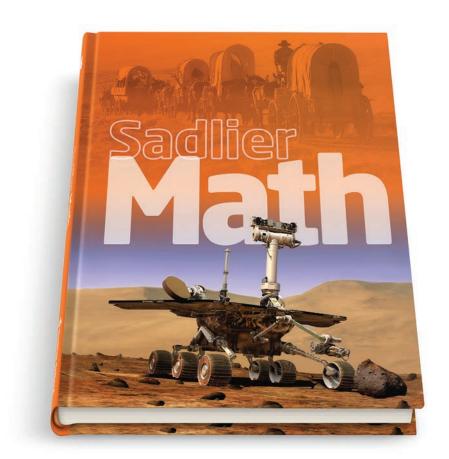
Sadlier School

Sadlier Math™

Correlation to the Archdiocese of Louisville Mathematics Standards 2019

Grade 4



Learn more at www.SadlierSchool.com/SadlierMath

OPERATIONS AND ALGEBRAIC THINKING (OA)

Grade 4 Content Standards

Sadlier Math, Grade 4

numbers to solve problems.
Chapter 4 Multiplication Concepts • 4-5 Multiply to Compare Numbers—pp. 78-79 Chapter 5 Multiply by One-Digit Numbers • 5-5 Multiplicative and Additive Comparisons—pp. 98-99
Chapter 4 Multiplication Concepts • 4-5 Multiply to Compare Numbers—pp. 78-79 Chapter 5 Multiply by One-Digit Numbers • 5-5 Multiplicative and Additive Comparisons—pp. 98-99 Chapter 7 Division Concepts • 7-6 Problem Solving: Work Backward—pp. 140-141 Chapter 8 Divide by One-Digit Numbers • 8-8 Problem Solving: Use a Model—pp. 164-165
Chapter 5 Multiply by One-Digit Numbers • 5-5 Multiplicative and Additive Comparisons—pp. 98-99
Chapter 2 Addition • 2-1 Mathematical Expressions—pp. 24-25 • 2-2 Addition Properties—pp. 26-27 • 2-3 Estimate Sums—pp. 28-29 Chapter 3 Subtraction • 3-1 Estimate Differences—pp. 46-47 • 3-6 Multistep Problems Using Addition and Subtraction—pp. 58-59 Chapter 4 Multiplication Concepts • 4-4 Estimate Products—pp. 76-77
Chapter 7 Division Concepts • 7-3 Estimate Quotients—pp. 132–133 Chapter 8 Divide by One-Digit Numbers • 8-1 One-Digit Quotients—pp. 148–149 • 8-3 Two-Digit Quotients—pp. 152–153
Chapter 3 Subtraction • 3-6 Multistep Problems Using Addition and Subtraction— pp. 58-59 Chapter 8 Divide by One-Digit Numbers • 8-7 Multistep Problems Using Multiplication and Division— pp. 162-163 continued

*Essential Standard

OPERATIONS AND ALGEBRAIC THINKING (OA) Grade 4 Content Standards Sadlier Math, Grade 4 See also **Grade 4 Skills Update and Practice** Solve Two-Step Problems—online—online *OCS.Math.4.1f Assess the reasonableness of an answer **Problem Solving Strategies** • Four-Step Process: Look Back: (Is your answer reasonable?/ to multistep word problems using estimation, rounding Estimate to check for errors)—p. xxii skills and mental computation **Problem Solving Math Practices** • MP 6: Be precise (exact answer or estimate?)—p. xxx Chapter 1 Place Value • 1-5 Round Whole Numbers—pp. 12-13 **Chapter 2 Addition** • 2-3 Estimate Sums (rounding/reasonable estimate)—pp. • 2-4 Add Thousands (rounding/reasonable answer)—pp. 30-31 • 2-5 Add Millions—pp. 34-35 **Chapter 3 Subtraction** • 3-1 Estimate Differences—pp. 46-47 • 3-3 Subtract with Two Regrouping (reasonable answer/ mental math)-pp. 50-51 • 3-6 Multistep Problems Using Addition and Subtraction (rounding/reasonable answer/mental math)—pp. 58-59 • 3-7 Problem Solving: Use a Model—pp. 60-61 **Chapter 4 Multiplication Concepts** • 4-3 Multiply Tens, Hundreds, and Thousands—pp. 74-75 • 4-4 Estimate Products—pp. 76-77 Chapter 6 Multiply by Two-Digit Numbers • 6-3 Multiply by Two-Digit Numbers: No Regrouping (estimate/reasonable answer)—pp. 114-115 • 6-4 Multiply by Two-Digit Numbers: Regrouping (reasonable answer)—pp. 116-117 **Chapter 7 Division Concepts** • 7-3 Estimate Quotients (reasonable answer)—pp. 132-133 • 7-4 Use Models to Divide-pp. 136-137 Chapter 8 Divide by One-Digit Numbers • 8-1 One-Digit Quotients-pp. 148-149 • 8-3 Two-Digit Quotients—pp. 152-153 Chapter 10 Fraction Concepts • 10-12 Problem Solving: Use a Model (reasonable answer) pp. 216-217 See also **Grade 4 Skills Update and Practice**

• Round Numbers to the Nearest Ten and Hundred-online

OPERATIONS AND ALGEBRAIC THINKING (OA)

Grade 4 Content Standards

Sadlier Math, Grade 4

OCS.Math.4.2 Gain	familiarity with	factors and m	nultiples.

*OCS.Math.4.2a Find factor pairs for whole numbers	Chapter 9 Factors and Multiples • 9-1 Factors—pp. 172–173 • 9-2 Factor Pairs—pp. 174–175
OCS.Math.4.2b Recognize that a whole number is a multiple of each of its factors	Chapter 9 Factors and Multiples • 9-1 Factors—pp. 172-173 • 9-4 Multiples—pp. 180-181 • 9-5 Common Multiples—pp. 182-183
OCS.Math.4.2c Determine whether a number is a multiple of a given one digit number	Chapter 9 Factors and Multiples • 9-4 Multiples—pp. 180-181 • 9-5 Common Multiples—pp. 182-183 • 9-6 Problem Solving: Make an Organized List (find the multiples)—pp. 184-185
*OCS.Math.4.2d Determine whether a number is prime or composite	Chapter 9 Factors and Multiples • 9-3 Prime and Composite Numbers—pp. 176-177

OCS.Math.4.3 Generate and analyze patterns.

OCS.Math.4.3b Determine the rule of a given pattern	Chapter 7 Division Concepts	
	See also Grade 4 Skills Update and Practice Find Patterns in the Multiplication Table—online	
	Chapter 17 Polygons • 17-5 Shape Patterns—pp. 380-381	
OCS.Math.4.3a Generate patterns that follow a given rule	Chapter 7 Division Concepts7-5 Number Patterns—pp. 138–139	

NUMBER AND OPERATIONS IN BASE TEN (NBT)

Grade 4 Content Standards

Sadlier Math, Grade 4

• 7-5 Number Patterns (rule for the pattern)—pp. 138-139

• 17-5 Shape Patterns (rule for the pattern)—pp. 380-381

OCS.Math.4.4 Generalize place value understanding for multi-digit whole numbers.

*OCS.Math.4.4a Recognize the relationship of same digits located in different places in a whole number

Chapter 1 Place Value

Chapter 17 Polygons

- 1-2 What Is One Million?—pp. 4-5
- 1-3 Millions—pp. 6-7



NUMBER AND OPERATIONS IN BASE TEN (NBT) Sadlier Math, Grade 4 **Grade 4 Content Standards** *OCS.Math.4.4b Identify and write multi-digit whole **Chapter 1 Place Value** • 1-1 Thousands—pp. 2-3 numbers using base-ten numerals, word form and • 1-2 What Is One Million?-pp. 4-5 expanded form • 1-3 Millions—pp. 6-7 • 1-4 Expanded Form—pp. 8-9 *OCS.Math.4.4c Round multi-digit whole numbers to any Chapter 1 Place Value • 1-5 Round Whole Numbers-pp. 12-13 place value See also **Grade 4 Skills Update and Practice** • Round Numbers to the Nearest Ten and Hundred—online

OCS.Math.4.5 Use place value understanding and properties of operations to perform multi-digit arithmetic.

*OCS.Math.4.5a Fluently add and subtract multi-digit whole numbers	Chapter 2 Addition • 2-2 Addition Properties—pp. 26-27 • 2-4 Add Thousands—pp. 30-31 • 2-5 Add Millions—pp. 34-35 • 2-6 Three or More Addends—pp. 36-37 • 2-7 Problem Solving: Make an Organized List—pp. 38-39
	Chapter 3 Subtraction 3-2 Subtract with One Regrouping—pp. 48-49 3-3 Subtract with Two Regrouping—pp. 50-51 3-4 Subtract Greater Numbers—pp. 54-55 3-5 Zeros in Subtraction—pp. 56-57 See also Grade 4 Skills Update and Practice Use Place Value to Add: Regroup Twice—online
*OCS.Math.4.5b Apply properties of operations to multiplication and division	Chapter 4 Multiplication Concepts • 4-1 Multiplication Properties—pp. 68-69 Chapter 5 Multiply by One-Digit Numbers • 5-2 Use Properties to Multiply by One-Digit Numbers—pp. 90-91 See also Grade 4 Skills Update and Practice • Properties of Operations—online
*OCS.Math.4.5c Use and explain a variety of strategies to multiply up to four digits by one digit	Chapter 4 Multiplication Concepts 4-1 Multiplication Properties—pp. 68-69 4-2 Use Place-Value Models—pp. 70-71 4-3 Multiply Tens, Hundreds, and Thousands—pp. 74-75 Chapter 5 Multiply by One-Digit Numbers 5-1 Multiply with Regrouping—pp. 88-89 continued

NUMBER AND OPERATIONS IN BASE TEN (NBT)		
Grade 4 Content Standards	Sadlier Math, Grade 4	
	 5-2 Use Properties to Multiply by One-Digit Numbers—pp. 90-91 5-3 Use Area Models to Multiply by One-Digit Numbers—pp. 92-93 5-4 Multiply Three- and Four-Digit Numbers—pp. 96-97 5-5 Multiplicative and Additive Comparisons—pp. 98-99 	
OCS.Math.4.5d Use and explain a variety of strategies to multiply two digits by two digitsi	Chapter 6 Multiply by Two-Digit Numbers • 6-1 Use Area Models to Multiply by Two-Digit Numbers—pp. 108-109 • 6-2 Break Apart Numbers to Multiply—pp. 110-111 • 6-3 Multiply by Two-Digit Numbers: No Regrouping—pp. 114-115 • 6-4 Multiply by Two-Digit Numbers: Regrouping—pp. 116-117 • 6-5 Multiplication Patterns—pp. 118-119	
*OCS.Math.4.5e Use and explain a variety of strategies to find whole number quotients and remainders with up to four digit dividends with one digit divisors	Chapter 7 Division Concepts 7-1 Division Rules—pp. 128-129 7-2 Relate Multiplication and Division—pp. 130-131 7-4 Use Models to Divide—pp. 136-137 Chapter 8 Divide by One-Digit Numbers 8-1 One-Digit Quotients—pp. 148-149 8-2 Divisibility—pp. 150-151 8-3 Two-Digit Quotients—pp. 152-153 8-4 Zeros in Quotients—pp. 154-155 8-5 More Quotients—pp. 158-159 8-6 Order of Operations—pp. 160-161 8-7 Multistep Problems Using Multiplication and Division—pp. 162-163	
OCS.Math.4.5f Interpret a remainder as a fraction that represents part of the next whole	Chapter 8 Divide by One-Digit Numbers • 8-1 One-Digit Quotients (remainder)—pp. 148-149 • 8-5 More Quotients (remainder)—pp. 158-159 See also Grade 5 Chapter 5 Number Theory and Fractions • 5-8 Interpret a Remainder (remainder as a fraction)—pp. 114-115	

Grade 4 Content Standards

Sadlier Math, Grade 4

OCS.Math.4.6 Extend understanding of fraction equivalence and ordering.

*OCS.Math.4.6a Use visual models to describe the relationship between two equivalent fractions

Chapter 10 Fraction Concepts

• 10-2 Equivalent Fractions: Number Line Diagrams—pp. 194–195

continued



Grade 4 Content Standards	Sadlier Math, Grade 4
	10-3 Write Equivalent Fractions: Use Models—pp. 196–197 10-4 Write Equivalent Fractions: Use Multiplication and Division—pp. 198–199 See also Grade 4 Skills Update and Practice Find Fractions on a Number Line—online
*OCS.Math.4.6b Generate an equivalent fraction by multiplying the numerator and denominator by the same number	Chapter 10 Fraction Concepts 10-2 Equivalent Fractions: Number Line Diagrams—pp. 194-195 10-3 Write Equivalent Fractions: Use Models—pp. 196-197 10-4 Write Equivalent Fractions: Use Multiplication and Division—pp. 198-199 See also Grade 4 Skills Update and Practice Find Equivalent Fractions—online Find Equivalent Fractions on a Number Line—online
*OCS.Math.4.6c Compare two fractions with different numerators and denominators using <,> and =	Chapter 10 Fraction Concepts 10-8 Compare Fractions (different denominators)—pp. 208-209 10-10 Compare Mixed Numbers—pp. 212-213 10-11 Order Fractions and Mixed Numbers—pp. 214-215 See also readiness Grade 4 Skills Update and Practice Compare Fractions with the Same Numerator—online Compare Fractions with the Same Denominator—online Chapter 10 Fraction Concepts 10-6 Compare Fractions: Use Benchmarks—pp. 204-205 10-7 Compare Fractions with the Same Denominator—pp. 206-207
*OCS.Math.4.6d Recognize that the magnitude of a fraction or decimal is determined by the size of the whole to which it refers	Chapter 10 Fraction Concepts 10-1 Fractions of a Set—pp. 192-193 10-7 Compare Fractions with the Same Denominator—pp. 206-207 10-8 Compare Fractions—pp. 208-209 10-9 Mixed Numbers—pp. 210-211 10-10 Compare Mixed Numbers—pp. 212-213 10-11 Order Fractions and Mixed Numbers—pp. 214-215 Chapter 13 Fractions and Decimals 13-1 Equivalent Fractions: Rename Tenths as Hundredths—pp. 272-273 13-2 Add and Subtract Fractions with Denominators of 10 and 100—pp. 274-275 13-3 Tenths and Hundredths as Fractions and Decimals—pp. 276-277 13-4 Decimals Greater Than One—pp. 278-279

• 13-5 Decimal Place Value—pp. 280-281

Grade 4 Content Standards

Sadlier Math, Grade 4

OCS.Math.4.7 Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

*OCS.Math.4.7a Understand addition and subtraction of fractions as joining and separating parts referring to the same whole	Chapter 11 Fractions: Addition and Subtraction 11-1 Use Models to Add Fractions—pp. 224-225 11-2 Add Fractions: Like Denominators—pp. 226-227 11-3 Decompose Fractions as Sums of Unit Fractions—pp. 228-229 11-4 Use Models to Subtract Fractions—pp. 230-231 11-5 Subtract Fractions: Like Denominators—pp. 232-233 11-7 Add Mixed Numbers: Like Denominators—pp. 238-239 11-8 Subtract Mixed Numbers: Like Denominators—pp. 240-241
*OCS.Math.4.7b Add fractions with common denominators	Chapter 11 Fractions: Addition and Subtraction 11-1 Use Models to Add Fractions—pp. 224-225 11-2 Add Fractions: Like Denominators—pp. 226-227
*OCS.Math.4.7c Subtract fractions with common denominators	Chapter 11 Fractions: Addition and Subtraction 11-4 Use Models to Subtract Fractions—pp. 230-231 11-5 Subtract Fractions: Like Denominators—pp. 232-233
OCS.Math.4.7d Decompose a fraction into a sum of fractions with the same denominator	Chapter 11 Fractions: Addition and Subtraction 11-2 Add Fractions: Like Denominators—pp. 226–227 11-3 Decompose Fractions as Sums of Unit Fractions—pp. 228–229 11-4 Use Models to Subtract Fractions—pp. 230–231
OCS.Math.4.7e Demonstrate that a fraction a/b is a multiple of 1/b	 Chapter 12 Fractions: Multiply by a Whole Number 12-1 Add Unit Fractions to Multiply—pp. 250-251 12-2 Model Multiplying a Unit Fraction and a Whole Number—pp. 252-253 12-3 Multiply a Unit Fraction and a Whole Number—pp. 254-255 12-4 Model Multiplying a Fraction and a Whole Number—pp. 258-259
OCS.Math.4.7f Add and subtract mixed numbers with like denominators	Chapter 11 Fractions: Addition and Subtraction 11-7 Add Mixed Numbers: Like Denominators—pp. 238-239 11-8 Subtract Mixed Numbers: Like Denominators—pp. 240-241
OCS.Math.4.7g Solve word problems involving addition and subtraction of fractions with common denominators	Chapter 11 Fractions: Addition and Subtraction 11-1 Use Models to Add Fractions—pp. 224-225 11-2 Add Fractions: Like Denominators—pp. 226-227 11-4 Use Models to Subtract Fractions—pp. 230-231 11-5 Subtract Fractions: Like Denominators—pp. 232-233 11-9 Problem Solving: More Than One Way—pp. 242-243

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Grade 4 Content Standards	Sadlier Math, Grade 4
*OCS.Math.4.7h Multiply a fraction by a whole number	Chapter 12 Fractions: Multiply by a Whole Number 12-2 Model Multiplying a Unit Fraction and a Whole Number—pp. 252-253 12-3 Multiply a Unit Fraction and a Whole Number—pp. 254-255 12-4 Model Multiplying a Fraction and a Whole Number—pp. 258-259 12-5 Multiply a Fraction and a Whole Number—pp. 260-261 12-6 Represent Situations Involving Multiplying a Fraction and a Whole Number—pp. 262-263
OCS.Math.4.7i Solve word problems involving multiplication of a fraction by a whole number	Chapter 12 Fractions: Multiply by a Whole Number 12-2 Model Multiplying a Unit Fraction and a Whole Number—pp. 252-253 12-3 Multiply a Unit Fraction and a Whole Number—pp. 254-255 12-4 Model Multiplying a Fraction and a Whole Number—pp. 258-259 12-5 Multiply a Fraction and a Whole Number—pp. 260-261 12-6 Represent Situations Involving Multiplying a Fraction and a Whole Number—pp. 262-263 12-7 Problem Solving: Write an Equation—pp. 264-265

OCS.Math.4.8 Understand decimal notation for fractions, and compare decimal fractions.

*OCS.Math.4.8a Explain the relationship between fractions, decimals, and percents	 Chapter 13 Fractions and Decimals 13-1 Equivalent Fractions: Rename Tenths as Hundredths—pp. 272-273 13-3 Tenths and Hundredths as Fractions and Decimals—pp. 276-277 13-4 Decimals Greater Than One—pp. 278-279 13-5 Decimal Place Value—pp. 280-281
	See also Grade 6 Chapter 11 Percent 11-1 Percent—pp. 254-255 11-2 Relate Percents to Fractions—pp. 256-257 11-3 Relate Percents to Decimals—pp. 258-259 11-4 Relate Decimals, Fractions, and Percents—pp. 260-261
*OCS.Math.4.8b Translate fractions with denominators 10 or 100 into decimals	 Chapter 13 Fractions and Decimals 13-1 Equivalent Fractions: Rename Tenths as Hundredths—pp. 272-273 13-3 Tenths and Hundredths as Fractions and Decimals—pp. 276-277 13-4 Decimals Greater Than One—pp. 278-279 13-5 Decimal Place Value—pp. 280-281



NUMBER AND OPERATIONS—FRACTIONS (NF) **Grade 4 Content Standards** Sadlier Math, Grade 4 OCS.Math.4.8c Compare two decimals to the hundredth **Chapter 13 Fractions and Decimals** place by reasoning about their size • 13-6 Compare Decimals with Models and Symbols—pp. 284-285 • 13-7 Order Decimals-pp. 286-287 **OCS.Math.4.8d** Compare two decimals to the hundredth Chapter 13 Fractions and Decimals • 13-6 Compare Decimals with Models and Symbols—pp. place using <,> and = 284-285 • 13-7 Order Decimals-pp. 286-287 *OCS.Math.4.8e Add decimals See Grade 5 **Chapter 10 Decimals: Addition** • 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 *OCS.Math.4.8f Subtract decimals See Grade 5 11 Decimals: Subtraction • 11-1 Use Models to Subtract Decimals—pp. 242-243 • 11-2 Estimate Decimal Differences—pp. 244-245

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Grade 4 Content Standards

Sadlier Math, Grade 4

11-3 Subtract Decimals: Hundredths—pp. 248-249
11-4 Subtract Decimals: Thousandths—pp. 250-251

OCS.Math.4.9 Solve problems involving measurement and conversion of measurements.

*OCS.Math.4.9a Know relative size of standard measurement units in customary and metric systems (mass, weight, liquid, volume, length, time)

Chapter 14 Measurement

- 14-1 Measure with Inches-pp. 296-297
- 14-2 Customary Units of Length—pp. 298-299
- 14-3 Customary Units of Capacity—pp. 300-301
- 14-4 Customary Units of Weight—pp. 302-303
- 14-6 Metric Units of Length—pp. 308-311
- 14-7 Metric Units of Capacity—pp. 310-313

Chapter 15 Measurement and Data

• 15-3 Elapsed Time-pp. 328-329

See also Grade 5

Chapter 16 Volume

- 16-1 Solid Figures-pp. 360-361
- 16-2 Cubic Measure—pp. 362-363

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Grade 4 Content Standards	Sadlier Math, Grade 4
	 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
*OCS.Math.4.9b Describe relationship of measurement units within US customary system and metric system	Chapter 14 Measurement 14-1 Measure with Inches—pp. 296-297 14-2 Customary Units of Length—pp. 298-299 14-3 Customary Units of Capacity—pp. 300-301 14-4 Customary Units of Weight—pp. 302-303 14-5 Operations with Customary Units—pp. 304-305 14-6 Metric Units of Length—pp. 308-311 14-7 Metric Units of Capacity—pp. 310-313 14-8 Metric Units of Mass—pp. 312-313 14-9 Operations with Metric Units—pp. 314-315 14-10 Problem Solving: Make a Table—pp. 316-317
OCS.Math.4.9c Record measurement equivalents in table	Chapter 14 Measurement 14-3 Customary Units of Capacity—pp. 300–301 14-4 Customary Units of Weight—pp. 302–303 14-6 Metric Units of Length—pp. 308–311 14-7 Metric Units of Capacity—pp. 310–313 14-8 Metric Units of Mass—pp. 312–313 14-10 Problem Solving: Make a Table—pp. 316–317
OCS.Math.4.9d Use the four operations to solve measurement word problems involving simple fractions	Chapter 14 Measurement 14-1 Measure with Inches—pp. 296-297 14-2 Customary Units of Length—pp. 298-299 14-3 Customary Units of Capacity—pp. 300-301 14-4 Customary Units of Weight—pp. 302-303 14-5 Operations with Customary Units—pp. 304-305
OCS.Math.4.9e Use the four operations to solve measurement word problems involving decimals	See Grade 5 Chapter 14 Measurement • 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
OCS.Math.4.9f Use the four operations to solve measurement word problems involving conversions from larger units to smaller units	Chapter 14 Measurement 14-2 Customary Units of Length—pp. 298-299 14-3 Customary Units of Capacity—pp. 300-301 14-4 Customary Units of Weight—pp. 302-303 14-5 Operations with Customary Units—pp. 304-305 14-6 Metric Units of Length—pp. 308-311 14-7 Metric Units of Capacity—pp. 310-313 14-8 Metric Units of Mass—pp. 312-313 14-9 Operations with Metric Units—pp. 314-315 14-10 Problem Solving: Make a Table—pp. 316-317 continued

MEASUREMENT AND DATA (MD)		
Grade 4 Content Standards	Sadlier Math, Grade 4	
	Chapter 15 Measurement and Data • 15-2 Use Multiplication to Rename Measures—pp. 326-327 • 15-3 Elapsed Time—pp. 328-329	
OCS.Math.4.9g Use a diagram to represent measurement quantities to solve word problems	Chapter 14 Measurement 14-1 Measure with Inches—pp. 296-297 14-5 Operations with Customary Units—pp. 304-305 14-6 Metric Units of Length—pp. 308-311	
	Chapter 15 Measurement and Data 15-1 Represent Measures on a Number Line—pp. 324-325 15-3 Elapsed Time—pp. 328-329 15-4 Temperature—pp. 330-331	
*OCS.Math.4.9h Apply the area formula for rectangles in real world and mathematical problems	Chapter 17 Polygons • 17-7 Use Area Formulas—pp. 384-385 See also Grade 4 Skills Update and Practice • Find the Area of a Rectangle and a Square—online	
*OCS.Math.4.9i Apply the perimeter formula for rectangles in the real world and mathematical problems	Chapter 17 Polygons • 17-6 Use Perimeter Formulas—pp. 382–383 See also Grade 4 Skills Update and Practice • Find Perimeter—online	

OCS.Math.4.10 Understand and apply the statistics process.	
OCS.Math.4.10a Generate and design an investigation for a statistical question based on numerical data	Chapter 15 Measurement and Data • 15-7 Surveys and Line Plots—pp. 338-339
OCS.Math.4.10b Make a line plot to display a data set of measurement in fractions of a unit	Chapter 15 Measurement and Data • 15-6 Line Plots—pp. 336-337 • 15-7 Surveys and Line Plots—pp. 338-339
OCS.Math.4.10c Use data from line plot to solve problems involving addition and subtraction of fractions	Chapter 15 Measurement and Data • 15-6 Line Plots—pp. 336-337 • 15-7 Surveys and Line Plots—pp. 338-339
OCS.Math.4.10d Predict the frequency of an outcome in a simple probability experiment	N/A
OCS.Math.4.10e Determine how the number of repetitions of a probability experiment can affect conclusions drawn	N/A

MEASUREMENT AND DATA (MD)

Sadlier Math, Grade 4

Grade 4 Content Standards	Sadlier Math, Grade 4	
OCS.Math.4.11 Geometric measurement: understand concepts of angle and measure angles.		
*OCS.Math.4.11a Show that an angle is measured with reference to a circle with the intersection of the rays at the center of the circle	Chapter 16 Lines and Angles • 16-2 Angle Measure—pp. 352-353	
*OCS.Math.4.11b Measure and sketch angles in whole number degrees using protractors	Chapter 16 Lines and Angles • 16-3 Measure Angles (use a protractor)—pp. 356-357	
OCS.Math.4.11c Recognize that a 1 degree angle is 1/360 of a circle	Chapter 16 Lines and Angles • 16-2 Angle Measure—pp. 352-353	
OCS.Math.4.11d Show that angle measure is additive	Chapter 16 Lines and Angles • 16-4 Unknown Angle Measures—pp. 358-359	
*OCS.Math.4.11e Solve addition and subtraction problems to find the value of unknown angles on a diagram in real world and mathematical problems	Chapter 16 Lines and Angles • 16-4 Unknown Angle Measures—pp. 358-359	

OCS.Math.4.12 Draw and identify lines and angles, and classify shapes by properties of their lines and angles.		
*OCS.Math.4.12a Define and draw point, lines, line segments, rays, angles, perpendicular lines and parallel lines	Chapter 16 Lines and Angles 16-1 Points, Lines, Line Segments, Rays and Angles—pp. 350-351 16-2 Angle Measure—pp. 352-353 16-3 Measure Angles—pp. 356-357 16-4 Unknown Angle Measures—pp. 358-359 16-5 Parallel and Perpendicular Lines—pp. 360-361 16-6 Problem Solving: Use a Diagram—pp. 362-363	
*OCS.Math.4.12b Identify right, acute, obtuse angle, parallel and perpendicular lines in two dimensional figures	Chapter 16 Lines and Angles 16-2 Angle Measure—pp. 352–353 16-3 Measure Angles—pp. 356–357 16-4 Unknown Angle Measures—pp. 358–359 16-5 Parallel and Perpendicular Lines—pp. 360–361 Chapter 17 Polygons 17-2 Quadrilaterals—pp. 372–373 17-3 Triangles—pp. 374–375	

GEOMETRY (G)

Grade 4 Content Standards

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GEOMETRY (G)	
Grade 4 Content Standards	Sadlier Math, Grade 4
OCS.Math.4.12c Classify two dimensional figures based on the presence or absence of parallel or perpendicular lines	Chapter 17 Polygons • 17-2 Quadrilaterals—pp. 372-373
OCS.Math.4.12d Classify two dimensional figures based on the presence or absence of angles of a specified size	Chapter 17 Polygons 17-1 Polygons—pp. 370-371 17-2 Quadrilaterals—pp. 372-373 17-3 Triangles—pp. 374-375
*OCS.Math.4.12e Identify the attributes of a right triangle	Chapter 17 Polygons • 17-3 Triangles—pp. 374–375

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