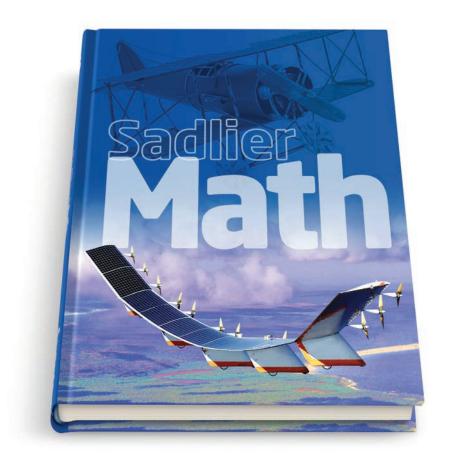
Sadlier School

Sadlier Math™

Correlation to the Archdiocese of Louisville Mathematics Standards 2019

Grade 5



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OPERATIONS AND ALGEBRAIC THINKING (OA)

Grade 5 Content Standards

Sadlier Math, Grade 5

OCS.Math.5.1 Write and interpret numerical expressions and equations.

*OCS.Math.5.1a Differentiate between numeric and algebraic expressions and equations

Chapter 4 Division

- 4-10 Order of Operations (numerical expressions)—pp. 88-89
- 4-11 Expressions (numerical expressions)—pp. 90-91

Chapter 7 Fractions: Subtraction

 7-9 Problem Solving: Write and Solve an Equation—pp. 160–161

See also Grade 6

Chapter 1 Addition and Subtraction Operations and Expressions

- 1-2 Add Decimals (numerical expression)—pp. 4-5
- 1-4 Write Addition and Subtraction Expressions (algebraic expression)—pp. 10-11

OCS.Math.5.1b Evaluate numerical expressions that use parentheses, brackets, or braces

Chapter 1 Place Value, Addition and Subtraction

- 1-5 Addition Properties and Subtraction Rules (parentheses)—pp. 12-13
- 1-6 Estimate Sums and Differences (parentheses)—pp. 14-15

Chapter 2 Place Value and Decimals

• 2-2 Decimals and Expanded Form (parentheses)—pp. 26-27

Chapter 3 Multiplication

- 3-1 Multiplication Properties (evaluate expressions with parentheses)—pp. 44-45
- 3-2 Multiplication Patterns (parentheses)—pp. 46-47

Chapter 4 Division

- 4-10 Order of Operations (evaluate numerical expressions/ parentheses)—pp. 88-89
- 4-11 Expressions (parentheses, brackets)—pp. 90-91

OCS.Math.5.1c Evaluate expressions that include variables for the unknown quantity

Chapter 4 Division

• 4-11 Expressions-pp. 90-91

Chapter 7 Fractions: Subtraction

 7-9 Problem Solving: Write and Solve an Equation (letter representing unknown quantity)—pp. 160-161

See also Grade 6

Chapter 1 Addition and Subtraction Operations and Expressions

 1-4 Write Addition and Subtraction Expressions (variable)—pp. 10-11

OPERATIONS AND ALGEBRAIC THINKING (OA)

Grade 5 Content Standards Sadlier Math, Grade 5 OCS.Math.5.1d Write, interpret and evaluate numerical **Problem Solving Strategies** • Write and Solve an Equation-p. xxv and algebraic expressions and equations Chapter 1 Place Value, Addition and Subtraction • 1-4 Problem Solving: Use the Four-Step Process (write an equation)—pp. 10-11 • 1-7 Find Sums and Differences (simplify expressions)—pp. 16-17 **Chapter 4 Division** • 4-10 Order of Operations (evaluate numerical expressions)-pp. 88-89 • 4-11 Expressions—pp. 90-91 **Chapter 7 Fractions: Subtraction** • 7-9 Problem Solving: Write and Solve an Equation—pp. 160-161 **OCS.Math.5.1e** Write and interpret numerical/algebraic Chapter 1 Place Value, Addition and Subtraction • 1-4 Problem Solving: Use the Four-Step Process (write an expressions and equations from word problems equation)—pp. 10-11 **Chapter 4 Division** · 4-11 Expressions (write an expression to represent word problems)-pp. 90-91 **Chapter 7 Fractions: Subtraction** • 7-9 Problem Solving: Write and Solve an Equation—pp. 160-161

OCS.Math.5.2 Analyze patterns and relationships. *OCS.Math.5.2a Generate a rule for growing patterns, **Chapter 17 Graphs and Data** • 17-5 Write Number Patterns (pattern rule)—pp. 390-391 identifying the relationship between corresponding terms (x,y)*OCS.Math.5.2b Generate numerical patterns using one Chapter 17 Graphs and Data • 17-5 Write Number Patterns—pp. 390-391 or two given rules (x,y) • 17-6 Graph Number Patterns-pp. 392-393 *OCS.Math.5.2c Use tables, ordered pairs and graphs to **Chapter 17 Graphs and Data** • 17-5 Write Number Patterns (tables)—pp. 390-391 represent the relationship between corresponding terms • 17-6 Graph Number Patterns—pp. 392-393 • 17-7 Problem Solving: Find and Use a Pattern—pp. 394-395 *OCS.Math.5.2d Define the application of ordered pairs **Chapter 17 Graphs and Data** • 17-6 Graph Number Patterns—pp. 392-393 to a coordinate plane

• 17-7 Problem Solving: Find and Use a Pattern—pp. 394–395

NUMBER AND OPERATIONS IN BASE TEN (NBT)

Grade 5 Content Standards

Sadlier Math, Grade 5

OCS Math	.5.3 Understand	the place va	lue system
OCS.Math.	.J.J UliuelStaliu	tile place va	iue systeili.

OCS.Math.5.3a Recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and 1/10 of what it represents in the place to its left

Chapter 1 Place Value, Addition and Subtraction

- 1-1 Place Value to Billions—pp. 2-3
- 1-2 Expanded Form—pp. 4-5

*OCS.Math.5.3b Explain patterns in the number of zeros of the product when multiplying a number by powers of 10

Chapter 1 Place Value, Addition and Subtraction

• 1-3 Powers of 10-pp. 8-9

OCS.Math.5.3c Explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10

Chapter 12 Decimals: Multiplication

• 12-1 Multiply by Powers of 10-pp. 262-263

Chapter 13 Decimals: Division

• 13-1 Divide by Powers of 10-pp. 288-289

OCS.Math.5.3d Use whole-number exponents to denote powers of 10

Chapter 1 Place Value, Addition and Subtraction

• 1-3 Powers of 10 (exponents)—pp. 8-9

*OCS.Math.5.3e Read and write decimals to the tenthousandths place using base-ten numerals, number names, and expanded form

Chapter 2 Place Value and Decimals

- 2-1 Thousandths—pp. 24-25
- 2-2 Decimals and Expanded Form—pp. 26-27

*OCS.Math.5.3f Compare and order decimals to the tenthousandths place using >, <, or = symbols

Chapter 2 Place Value and Decimals

• 2-3 Compare and Order Decimals—pp. 30-31

*OCS.Math.5.3g Round decimals to the indicated place value position

Chapter 2 Place Value and Decimals

- 2-4 Round Decimals—pp. 32-33
- 2-6 Estimate with Decimals (round decimals)—pp. 36-37

Chapter 10 Decimals: Addition

• 10-3 Estimate Decimal Sums (round decimals)—pp. 224-225

Chapter 11 Decimals: Subtraction

• 11-2 Estimate Decimal Differences (round decimals)—pp. 244-245

OCS.Math.5.4 Perform operations with multi-digit whole numbers and with decimals to hundredths.

*OCS.Math.5.4a Fluently multiply multi-digit whole numbers using the standard algorithm

Chapter 3 Multiplication

- 3-4 Zeros in the Multiplicand—pp. 50-51
- 3-5 Multiply by Two-Digit Numbers—pp. 54-55
- 3-6 Problem Solving: Guess and Test—pp. 56-57
- 3-7 Multiply by Three-Digit Numbers—pp. 58-59
- 3-8 Zeros in the Multiplier-pp. 60-61



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NUMBER AND OPERATIONS IN BASE TEN (NBT) **Grade 5 Content Standards** Sadlier Math, Grade 5 *OCS.Math.5.4b Fluently divide up to four-digit **Chapter 4 Division** • 4-1 Division Patterns-pp. 68-69 dividends by two-digit divisors using strategies based • 4-2 Estimation: Compatible Numbers—pp. 70-71 on place value, the properties of operations and/or the • 4-3 Divide by One-Digit Numbers—pp. 72-73 relationship between multiplication and division • 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 4-9 Problem Solving: Work Backward—pp. 86-87 *OCS.Math.5.4c Recognize the percent and decimal See Grade 6 **Chapter 11 Percent** value of benchmark fractions • 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.5.4d Illustrate and explain division by using **Chapter 4 Division** 4-3 Divide by One-Digit Numbers—pp. 72-73 equations, rectangular arrays, and/or area models • 4-4 Zeros in the Quotient-pp. 74-75 • 4-6 Use Arrays and Area Models to Divide-pp. 80-81 • 4-7 Use Strategies to Divide-pp. 82-*OCS.Math.5.4e Report and explain remainders as **Chapter 5 Number Theory and Fractions** • 5-8 Interpret a Remainder (fractions)—pp. 114-115 fractions and decimals *No reporting or explaining remainders as decimals. **OCS.Math.5.4f** Interpret remainders in problem solving Chapter 5 Number Theory and Fractions • 5-8 Interpret a Remainder-pp. 114-115 **OCS.Math.5.4g** Estimate quotients using compatible Chapter 4 Division • 4-2 Estimation: Compatible Numbers—pp. 70-71 numbers

*OCS.Math.5.4i Recognize and interpret the greatest **Chapter 5 Number Theory and Fractions** common factor (GCF) and least common multiple (LCM)

• 5-2 Common Factors—pp. 100-101

Chapter 4 Division

*OCS.Math.5.4j Add and subtract decimals to the hundredths using concrete models or drawing, strategies based on place value, properties of operations, the relationship between addition and subtraction

OCS.Math.5.4h Apply divisibility rules for 2, 3, 4, 5, 6, 9,

Chapter 10 Decimals: Addition

- 10-1 Use Models to Add Decimals-pp. 220-221
- 10-2 Use Properties to Add Decimals—pp. 222-223

• 4-5 Divisibility and Mental Math (divisibility rules)—pp.

- 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

continued

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NUMBER AND OPERATIONS IN BASE TEN (NBT)			
Grade 5 Content Standards	Sadlier Math, Grade 5		
	 10-6 Add Decimals: Thousandths—pp. 232-233 10-7 Addition with Money—pp. 234-235 Chapter 11 Decimals: Subtraction 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 		
*OCS.Math.5.4k Multiply decimals to the hundredths using concrete models or drawing, strategies based on place value, properties of operations, the relationship between addition and subtraction	Chapter 12 Decimals: Multiplication 12-2 Use Properties to Multiply a Decimal by a Whole Number—pp. 264–265 12-3 Estimate Decimal Products—pp. 266–267 12-4 Multiply Decimals by Whole Numbers—pp. 268–269 12-5 Multiplication with Money—pp. 270–271 12-6 Model Multiplying Two Decimals—pp. 274–275 12-7 Multiply Decimals by Decimals—pp. 276–277 12-8 Zeros in the Product—pp. 278–279 12-9 Problem Solving: More Than One Way—pp. 280–281		
*OCS.Math.5.4I Explain the reasoning for using concrete models, drawing, strategies based on place value,	Chapter 1 Place Value, Addition and Subtraction • 1-5 Addition Properties and Subtraction Rules—pp. 12-13		

NUMBER AND OPERATIONS—FRACTIONS (NF)

Grade 5 Content Standards

properties of operations, and/or the relationship between

addition and subtraction for decimal computation

Sadlier Math, Grade 5

OCS.Math.5.5 Use equivalent fractions as a strategy to add and subtract fractions.

*OCS.Math.5.5a Add and subtract fractions with unlike denominators including mixed numbers by replacing given fractions with equivalent fractions

Chapter 6 Fractions: Addition

- 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
- 6-5 Problem Solving: Use a Model—pp. 132-133

• 1-6 Estimate Sums and Differences—pp. 14-15

• 1-7 Find Sums and Differences—pp. 16-17

• 6-6 Rename Mixed Number Sums—pp. 134-135

Chapter 7 Fractions: Subtraction

- 7-1 Model Subtraction of Fractions with Unlike Denominators—pp. 142-143
- 7-2 Subtract Fractions: Unlike Denominators—pp. 144-145

continued



NUMBER AND OPERATIONS—FRACTIONS (NF)			
Grade 5 Content Standards	Sadlier Math, Grade 5		
	 7-3 Subtract Fractions: Estimation and Reasonableness—pp. 146-147 7-4 Model Subtraction with Mixed Numbers—pp. 150-151 7-5 Estimate Sums and Differences of Mixed Numbers—pp. 152-153 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 7-9 Problem Solving: Write and Solve An Equation—pp. 160-161 		
OCS.Math.5.5b Solve word problems involving addition and subtraction of fractions including cases of unlike denominators using visual models or equations to represent the problem	 Chapter 6 Fractions: Addition 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 6-5 Problem Solving: Use a Model—pp. 132-133 6-6 Rename Mixed Number Sums—pp. 134-135 Chapter 7 Fractions: Subtraction 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 7-5 Estimate Sums and Differences of Mixed Numbers—pp. 152-153 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 7-9 Problem Solving: Write and Solve An Equation—pp. 160-161 		
*OCS.Math.5.5c Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers	 Chapter 6 Fractions: Addition 6-3 Fraction Addition: Estimation and Reasonableness (use benchmarks)—pp. 126–127 6-5 Problem Solving: Use a Model (answer is reasonable)—pp. 132–133 Chapter 7 Fractions: Subtraction 7-4 Model Subtraction with Mixed Numbers—pp. 150–151 7-5 Estimate Sums and Differences of Mixed Numbers (rounding/front-end estimation)—pp. 152–153 		

NUMBER AND OPERATIONS—FRACTIONS (NF)

Grade 5 Content Standards Sadlier Math, Grade 5 OCS.Math.5.5d Apply greatest common factor (GCF) to **Chapter 5 Number Theory and Fractions** • 5-2 Common Factors (GCF)—pp. 100-101 express sums and differences in simplest forms • 5-6 Fractions Greater Than or Equal to One (simplest form)—pp. 110-111 **Chapter 6 Fractions: Addition** • 6-1 Model Addition with Unlike Denominators (simplest form)-pp. 122-123 • 6-2 Add Fractions: Unlike Denominators—pp. 124-125 • 6-4 Add Mixed Numbers-pp. 130-131 • 6-5 Problem Solving: Use a Model—pp. 132-133 • 6-6 Rename Mixed Number Sums-pp. 134-135 **Chapter 7 Fractions: Subtraction** • 7-1 Model Subtraction of Fractions with Unlike Denominators—pp. 142-143 • 7-2 Subtract Fractions: Unlike Denominators—pp. 144-145 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

OCS.Math.5.6 Apply and extend previous understandings of multiplication and division. *OCS.Math.5.6a Interpret a fraction as division of the **Chapter 5 Number Theory and Fractions** • 5-8 Interpret a Remainder (interpret a fraction as a numerator by the denominator division)-pp. 114-115 *OCS.Math.5.6b Solve word problems involving division **Chapter 5 Number Theory and Fractions** • 5-8 Interpret a Remainder-pp. 114-115 of whole numbers leading to answers in the form of fractions or mixed numbers **Chapter 9 Fractions: Division** • 9-4 Divide Unit Fractions by Whole Numbers-pp. 206-207 • 9-5 Divide Fractions by Whole Numbers—pp. 208-209 **OCS.Math.5.6c** Apply and extend previous understanding Chapter 8 Fractions: Multiplication 8-1 Model Multiplying Fractions—pp. 168–169 of multiplication to multiply a fraction or whole number • 8-2 Multiply Fractions by Fractions—pp. 170-171 by a fraction • 8-3 Multiply Fractions and Whole Numbers—pp. 172-173 • 8-5 Common Factors in Products—pp. 176-177 • 8-8 Multiply Fractions and Mixed Numbers—pp. 184-185 • 8-9 Multiply Mixed Numbers—pp. 186-187 **OCS.Math.5.6d** Fluently multiply a fraction by a whole **Chapter 8 Fractions: Multiplication** • 8-3 Multiply Fractions and Whole Numbers—pp. 172-173 number

NUMBER AND OPERATIONS—FRACTIONS (NF)

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Grade 5 Content Standards	Sadlier Math, Grade 5
*OCS.Math.5.6e Express fractions greater than one as mixed numbers	Chapter 5 Number Theory and Fractions • 5-6 Fractions Greater Than or Equal to One—pp. 110–111 • 5-8 Interpret a Remainder—pp. 114–115
	Chapter 8 Fractions: Multiplication • 8-6 Rename Mixed Numbers as Fractions—pp. 180–181 • 8-7 Estimate Products with Mixed Numbers—pp. 182–183
OCS.Math.5.6f Interpret multiplication as scaling (resizing)	Chapter 8 Fractions: Multiplication • 8-4 Scaling Fractions—pp. 174–175
OCS.Math.5.6g Compare the size of a product to the size of one factor on the basis of the size of the other factor	Chapter 8 Fractions: Multiplication • 8-4 Scaling Fractions—pp. 174–175
OCS.Math.5.6h Use scaling or resizing to explain why multiplying a given number by an improper fraction results in a product greater than the given number	Chapter 8 Fractions: Multiplication • 8-4 Scaling Fractions—pp. 174-175
OCS.Math.5.6i Use scaling or resizing to explain why multiplying a given number by a proper fraction results in a product smaller than the given number	Chapter 8 Fractions: Multiplication • 8-4 Scaling Fractions—pp. 174-175
*OCS.Math.5.6j Solve real world problems involving fractions and mixed numbers using visual models and equations	Chapter 8 Fractions: Multiplication • 8-2 Multiply Fractions by Fractions—pp. 170–171 • 8-3 Multiply Fractions and Whole Numbers—pp. 172–173
	Chapter 9 Fractions: Division9-6 Word Problems Involving Fraction Division—pp. 210–211
*OCS.Math.5.6k Compute quotients by dividing unit fractions by whole numbers	Chapter 9 Fractions: Division • 9-4 Divide Unit Fractions by Whole Numbers—pp. 206-20
*OCS.Math.5.6I Compute quotients by dividing whole numbers by unit fractions	Chapter 9 Fractions: Division • 9-1 Divide Whole Numbers by Unit Fractions—pp. 198-1
OCS.Math.5.6m Interpret division of a unit fraction by a whole number, and compute such quotients	Chapter 9 Fractions: Division • 9-4 Divide Unit Fractions by Whole Numbers—pp. 206–207
OCS.Math.5.6n Interpret division of a whole number by a unit fraction, and compute such quotients	Chapter 9 Fractions: Division • 9-1 Divide Whole Numbers by Unit Fractions—pp. 198–199 • 9-2 Reciprocals—pp. 200–201 • 9-3 Divide Whole Numbers by Fractions—pp. 202–203

MEASUREMENT AND DATA (MD)

converting different size standard measurement units

within a given measurement system.

NUMBER AND OPERATIONS—FRACTIONS (NF)			
Grade 5 Content Standards	Sadlier Math, Grade 5		
OCS.Math.5.60 Solve real world problems involving division of unit fractions by whole numbers	Chapter 9 Fractions: Division • 9-4 Divide Unit Fractions by Whole Numbers—pp. 206-207 • 9-5 Divide Fractions by Whole Numbers—pp. 208-209 • 9-6 Word Problems Involving Fraction Division—pp. 210-211 • 9-7 Problem Solving: More Than One Way—pp. 212-213		
OCS.Math.5.6p Solve real world problems involving division of whole numbers by unit fractions	Chapter 9 Fractions: Division • 9-1 Divide Whole Numbers by Unit Fractions—pp. 198–199 • 9-3 Divide Whole Numbers by Fractions—pp. 202–203 • 9-6 Word Problems Involving Fraction Division—pp. 210–211 • 9-7 Problem Solving: More Than One Way—pp. 212–213		

Grade 5 Content Standards Sadlier Math, Grade 5 OCS.Math.5.7 Convert like measurement units within a given measurement system. *OCS.Math.5.7a Convert among different size Chapter 13 Decimals: Division • 13-8 Problem Solving: Work Backward (hours/minutes)—pp. measurement units (mass, weight, liquid volume, 304-305 length, time) within one system of units (metric system, **Chapter 14 Measurement** customary, and time). • 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 **OCS.Math.5.7b** Solve multi-step real world problems by **Chapter 14 Measurement**

• 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

MEASUREMENT AND DATA (MD) Grade 5 Content Standards Sadlier Math, Grade 5 OCS.Math.5.8 Understand and apply the statistics process. *OCS.Math.5.8a Identify, gather and display fractional **Chapter 17 Graphs and Data** • 17-1 Line Plots with Whole Numbers and Decimals—pp. data in an appropriate graph for statistical questions 380-381 focused on both categorical and numerical data. • 17-2 Line Plots with Fractions and Mixed Numbers—pp. 382-383 See also Grade 4 Chapter 15 Measurement and Data • 15-7 Surveys and Line Plots-pp. 338-339 OCS.Math.5.8b Interpret data displayed on a variety of **Chapter 17 Graphs and Data** • 17-1 Line Plots with Whole Numbers and Decimals—pp. graphs (bar graph, pictograph, line plot, stem and leaf 380-381 plots) • 17-2 Line Plots with Fractions and Mixed Numbers—pp. 382-383 See also Grade 3 Chapter 12 Data • 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: Compare Models—pp. 264-265 • 12-7 Read Line Plots-pp. 266-267 • 12-8 Make Line Plots-pp. 268-269 See also Grade 4 **Chapter 15 Measurement and Data** • 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 See also Grade 6 **Chapter 12 Money and Time** • 17-1 Dot Plots-pp. 378-379

Chapter 17 Graphs and Data

17-2 Box Plots—pp. 380-381
17-3 Histograms—pp. 382-383
17-4 Data Distributions—pp. 386-387
17-5 Interpret Circle Graphs—pp. 388-389

- 17-1 Line Plots with Whole Numbers and Decimals—pp. 380-381
- 17-2 Line Plots with Fractions and Mixed Numbers—pp. 382-383

to a question posed

OCS.Math.5.8c Make observations from a graph related

MEASUREMENT AND DATA (MD)			
Grade 5 Content Standards	Sadlier Math, Grade 5		
OCS.Math.5.8d Calculate and apply range, median, mode, and mean with whole numbers	See Grade 6 Chapter 16 Measures of Center and Variation • 16-2 Measures of Center (mean, median, mode)—pp. 360-361 • 16-3 Measures of Variation: Range and Interquartile Range—pp. 362-363		
	Chapter 17 Data Displays 17-1 Dot Plots (range)—pp. 378-379 17-2 Box Plots (range)—pp. 380-381 17-4 Data Distributions (mean, median, mode)—pp. 386-387		
OCS.Math.5.8e Determine and represent all the possible outcomes in a simple probability experiment	See Grade 6 Chapter 18 Probability • 18-3 Probability and Likelihood—online • 18-4 Theoretical Probability—online • 18-6 Uniform Probability Models—online • 18-8 Problem Solving: Make an Organized List—online		
OCS.Math.5.8f Represent, using a common fraction, the probability that an event will occur in simple games and experiments	See Grade 6 Chapter 18 Probability • 18-3 Probability and Likelihood—online • 18-4 Theoretical Probability—online • 18-6 Uniform Probability Models—online • 18-8 Problem Solving: Make an Organized List—online		
OCS.Math.5.8g Pose and solve simple probability problems	See also Grade 6 Chapter 18 Probability • 18-3 Probability and Likelihood—online • 18-4 Theoretical Probability—online • 18-5 Relative Frequency and Experimental Probability—online • 18-8 Problem Solving: Make an Organized List—online		

OCS.Math.5.9 Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition.

*OCS.Math.5.9a Recognize volume as an attribute of solid figures and understand concepts of volume measurement	Chapter 16 Volume • 16-2 Cubic Measure—pp. 362-363 • 16-3 Volumes of Rectangular Prisms—pp. 364-365		
*OCS.Math.5.9b Define a cubic unit as a cube with all side lengths of 1 unit and a volume of 1 unit cubed (cubic cm, cubic in, cubic feet)	Chapter 16 Volume • 16-1 Solid Figures—pp. 360–361 • 16-2 Cubic Measure—pp. 362–363 • 16-3 Volumes of Rectangular Prisms—pp. 364–365		

MEASUREMENT AND DATA (MD)			
Grade 5 Content Standards	Sadlier Math, Grade 5		
OCS.Math.5.9c Measure and express the volume of a solid figure by packing it without gaps with unit cubes (cubic cm, cubic in, cubic ft, and improvised units)	Chapter 16 Volume • 16-2 Cubic Measure—pp. 362-363 • 16-3 Volumes of Rectangular Prisms—pp. 364-365		
OCS.Math.5.9d Relate volume to the operations of multiplication and repeated addition and solve real world and mathematical problems involving volume.	Chapter 16 Volume • 16-3 Volumes of Rectangular Prisms—pp. 364-365 • 16-6 Problem Solving: Act It Out—pp. 372-373		
OCS.Math.5.9e Find the volume of a right rectangular prism with whole number side lengths by packing it with unit cubes, and relate the volume to that which would be calculated by multiplying the edge lengths	Chapter 16 Volume • 16-3 Volumes of Rectangular Prisms—pp. 364-365 • 16-6 Problem Solving: Act It Out—pp. 372-373		
*OCS.Math.5.9f Apply the formulas V= I x w x h and V= B x h for rectangular prisms with whole-number edge lengths in the context of solving real world and mathematical problems.	Chapter 16 Volume • 16-4 Volume Formulas—pp. 368-369		
OCS.Math.5.9g Solve real world problems to find the volumes of solid figures composed of two non-overlapping right rectangular prisms by adding the volumes of the non-over-lapping parts	Chapter 16 Volume • 16-5 Volume of Composite Figures—pp. 370-371		

GEOMETRY (G)

	Grade 5	Con	tent S	tanda	ard	S
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Sadlier Math, Grade 5

OCS.Math.5.10 Graph points on the coordinate plane to solve real-world and mathematical problems.

*OCS.Math.5.10a Identify the parts of a coordinate plane including origin, x axis and y axis	Chapter 17 Graphs and Data • 17-3 The Coordinate Plane—pp. 386-387
*OCS.Math.5.10b Locate and describe how to find a point in quadrant one of the coordinate plane using an ordered pair of numbers	Chapter 17 Graphs and Data • 17-3 The Coordinate Plane—pp. 386-387
OCS.Math.5.10c Represent real world and mathematical problems by graphing points in the first quadrant of the coordinate plane and interpret coordinate values of points in the context of the situation	Chapter 17 Graphs and Data • 17-4 Using Coordinate Graphs—pp. 388-389



GEOMETRY (G)	
Grade 5 Content Standards	Sadlier Math, Grade 5
OCS.Math.5.11 Classify two and three dimensional figures into categories based on their properties.	
OCS.Math.5.11a Identify the following attributes: sides, vertices, faces, edges, and angles (obtuse, acute, right, or straight)	Chapter 15 Geometry 15-1 Polygons (sides, vertices)—pp. 342-343 15-2 Triangles (angles: obtuse, acute, right)—pp. 344-345 15-3 Quadrilaterals (sides, vertex)—pp. 348-349 15-4 Classify Quadrilaterals (angles, sides)—pp. 350-351
	Chapter 16 Volume • 16-1 Solid Figures (face, edge, vertex)—pp. 360-361
	See also Grade 4 (straight angle) Chapter 16 Lines and Angles • 16-2 Angle Measure (right, acute, obtuse, straight)—pp. 352-353
OCS.Math.5.11b Compare and understand that attributes belonging to a category of two-dimensional figures also belong to all	Chapter 15 Geometry 15-1 Polygons—pp. 342–343 15-2 Triangles—pp. 344–345 15-3 Quadrilaterals—pp. 348–349 15-4 Classify Quadrilaterals—pp. 350–351 15-5 Problem Solving: Use a Model—pp. 352–353
*OCS.Math.5.11c Classify two-dimensional figures into hierarchy based on their properties	Chapter 15 Geometry • 15-2 Triangles—pp. 344-345 • 15-4 Classify Quadrilaterals—pp. 350-351 • 15-5 Problem Solving: Use a Model—pp. 352-353
*OCS.Math.5.11d Classify three-dimensional figures including cubes, prisms, pyramids, cones, and spheres	Chapter 16 Volume • 16-1 Solid Figures—pp. 360–361