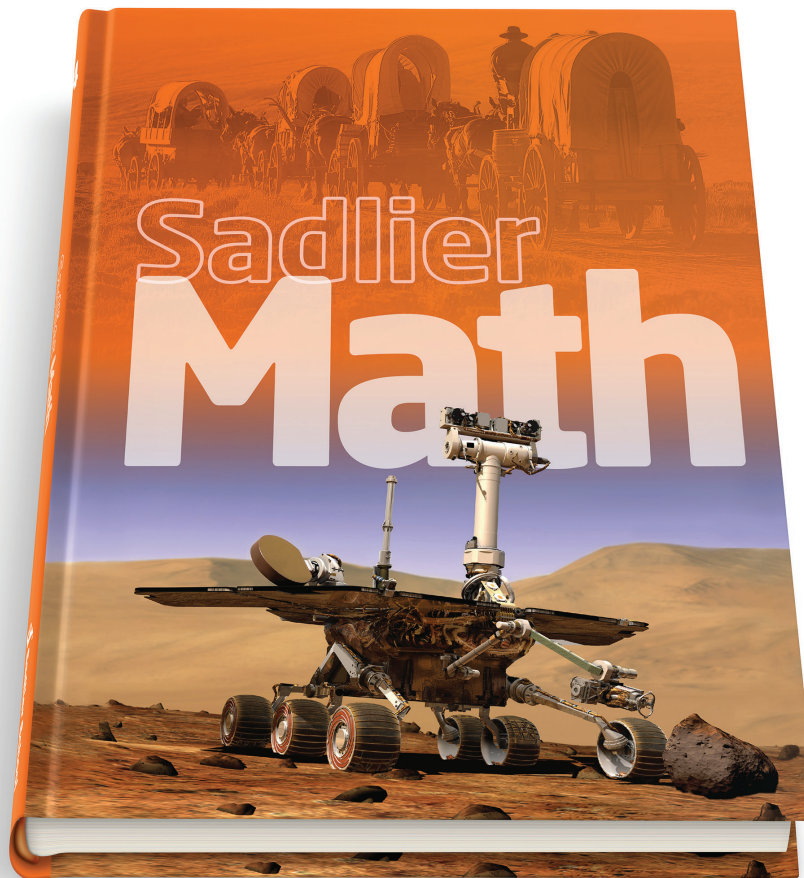


Sadlier Math[™]

Correlation to the Missouri Learning Standards:
Grade-Level Expectations for Mathematics

Grade 4



Learn more at www.SadlierSchool.com/SadlierMath

NUMBER SENSE AND OPERATIONS IN BASE TEN

Grade 4 Content Standards	Sadlier Math, Grade 4
Use place value understanding and properties of operations to perform multi-digit arithmetic with numbers up to one million.	
4.NBT.A.1 Round multi-digit whole numbers to any place.	Chapter 1: 1-5
4.NBT.A.2 Read, write and identify multi-digit whole numbers up to one million using number names, base ten numerals and expanded form.	Chapter 1: 1-1 through 1-4
4.NBT.A.3 Compare two multi-digit numbers using the symbols $>$, $=$ or $<$, and justify the solution.	Chapter 1: 1-6
4.NBT.A.4 Understand that in a multi-digit whole number, a digit represent 10 times what it would represents in the place to its right.	Chapter 1: 1-2 & 1-3
4.NBT.A.5 Demonstrate fluency with addition and subtraction of whole numbers.	Chapter 2: 2-2, 2-4 through 2-6 Chapter 3: 3-2 through 3-5
4.NBT.A.6 Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, and justify the solution.	Chapter 4: 4-1 through 4-3 Chapter 5: 5-1 through 5-5 Chapter 6: 6-1 through 6-5 Chapter 8: 8-7
4.NBT.A.7 Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, and justify the solution.	Chapter 7: 7-1, 7-2 & 7-4 Chapter 8: 8-1 through 8-7

NUMBER SENSE AND OPERATIONS IN FRACTIONS

Grade 4 Content Standards	Sadlier Math, Grade 4
Extend understanding of fraction equivalence and ordering. (Limit denominators to 2, 3, 4, 5, 6, 8, 10, 12 and 100.)	
4.NF.A.1 Explain and/or illustrate why two fractions are equivalent.	Chapter 10: 10-1 through 10-4

NUMBER SENSE AND OPERATIONS IN FRACTIONS

Grade 4 Content Standards	Sadlier Math, Grade 4
4.NF.A.2 Recognize and generate equivalent fractions.	Chapter 10: 10-3 & 10-4
4.NF.A.3 Compare two fractions using the symbols $>$, $=$ or $<$, and justify the solution.	Chapter 10: 10-6 through 10-8, 10-10 & 10-11
Extend understanding of operations on whole numbers to fraction operations.	
4.NF.B.4 Understand addition and subtraction of fractions as joining/composing and separating/decomposing parts referring to the same whole.	Chapter 11: 11-1 through 11-5, 11-7 & 11-8
4.NF.B.5 Decompose a fraction into a sum of fractions with the same denominator and record each decomposition with an equation and justification.	Chapter 11: 11-3
4.NF.B.6 Solve problems involving adding and subtracting fractions and mixed numbers with like denominators.	Chapter 10: 10-9 Chapter 11: 11-1 through 11-8
4.NF.B.7 Apply and extend previous understandings of multiplication to multiply a fraction by a whole number.	Chapter 12: 12-1 through 12-6
4.NF.B.8 Solve problems involving multiplication of a fraction by a whole number.	Chapter 12: 12-1 through 12-7
Understand decimal notation for fractions, and compare decimal fractions. (Denominators of 10 or 100)	
4.NF.C.9 Use decimal notation for fractions with denominators of 10 or 100.	Chapter 13: 13-3 through 13-5
4.NF.C.10 Understand that fractions and decimals are equivalent representations of the same quantity.	Chapter 13: 13-1

NUMBER SENSE AND OPERATIONS IN FRACTIONS

Grade 4 Content Standards	Sadlier Math, Grade 4
4.NF.C.11 Read, write and identify decimals to the hundredths place using number names, base ten numerals and expanded form.	Chapter 13: 13-3 through 13-5
4.NF.C.12 Compare two decimals to the hundredths place using the symbols $>$, $=$ or $<$, and justify the solution.	Chapter 13: 13-6 & 13-7

RELATIONSHIPS AND ALGEBRAIC THINKING

Grade 4 Content Standards	Sadlier Math, Grade 4
Use the four operations with whole numbers to solve problems.	
4.RA.A.1 Multiply or divide to solve problems involving a multiplicative comparison.	Chapter 4: 4-5 Chapter 5: 5-5 Chapter 7: 7-6 Chapter 8: 8-8
4.RA.A.2 Solve multi-step whole number problems involving the four operations and variables and using estimation to interpret the reasonableness of the answer.	Chapter 2: 2-1 through 2-3 Chapter 3: 3-1 & 3-6 Chapter 4: 4-4 Chapter 7: 7-3 Chapter 8: 8-1 & 8-3
4.RA.A.3 Solve whole number division problems involving variables in which remainders need to be interpreted, and justify the solution.	Chapter 7: 7-3 Chapter 8: 8-1 & 8-3
Work with factors and multiples.	
4.RA.B.4 Recognize that a whole number is a multiple of each of its factors and find the multiples for a given whole number.	Chapter 9: 9-1 through 9-5
4.RA.B.5 Determine if a whole number within 100 is composite or prime, and find all factor pairs for whole numbers within 100.	Chapter 9: 9-2 & 9-3

RELATIONSHIPS AND ALGEBRAIC THINKING

Grade 4 Content Standards	Sadlier Math, Grade 4
Generate and analyze patterns.	
4.RA.C.6 Generate a number pattern that follows a given rule.	Chapter 7: 7-5
4.RA.C.7 Use words or mathematical symbols to express a rule for a given pattern.	Chapter 7: 7-5 Chapter 17: 17-5

GEOMETRY AND MEASUREMENT

Grade 4 Content Standards	Sadlier Math, Grade 4
Classify two-dimensional shapes by properties of their lines and angles.	
4.GM.A.1 Draw and identify points, lines, line segments, rays, angles, perpendicular lines and parallel lines.	Chapter 16: 16-1 through 16-6
4.GM.A.2 Classify two-dimensional shapes by their sides and/or angles.	Chapter 17: 17-1 through 17-3
4.GM.A.3 Construct lines of symmetry for a two-dimensional figure.	Chapter 17: 17-4
Understand the concepts of angle and measure angles.	
4.GM.B.4 Identify and estimate angles and their measure.	Chapter 16: 16-1 & 16-2
4.GM.B.5 Draw and measure angles in whole-number degrees using a protractor.	Chapter 16: 16-1 through 16-3
Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.	
4.GM.C.6 Know relative sizes of measurement units within one system of units.	
4.GM.C.6a Convert measurements in a larger unit in terms of a smaller unit.	Chapter 14: 14-1 through 14-10

GEOMETRY AND MEASUREMENT

Grade 4 Content Standards	Sadlier Math, Grade 4
4.GM.C.7 Use the four operations to solve problems involving distances, intervals of time, liquid volume, weight of objects and money.	Chapter 14: 14-1 through 14-9 Chapter 15: 15-1 through 15-3
4.GM.C.8 Apply the area and perimeter formulas for rectangles to solve problems.	Chapter 17: 17-6 & 17-7

DATA AND STATISTICS

Grade 4 Content Standards	Sadlier Math, Grade 4
Represent and analyze data.	
4.DS.A.1 Create a frequency table and/or line plot to display measurement data.	Chapter 15: 15-6 & 15-7
4.DS.A.2 Solve problems involving addition and subtraction by using information presented in a data display.	Chapter 15: 15-6 & 15-7
4.DS.A.3 Analyze the data in a frequency table, line plot, bar graph or picture graph.	Chapter 15: 15-6 & 15-7