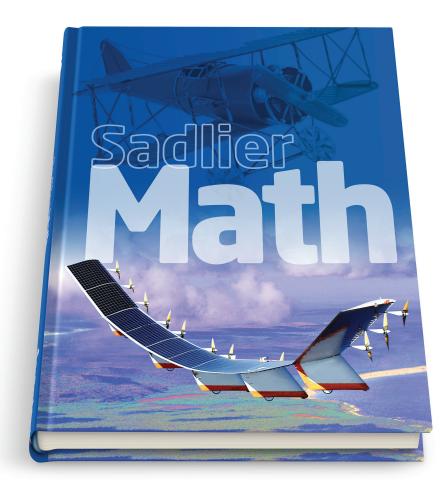
Sadlier Math[™]

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





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NUMBER SENSE AND OPERATIONS IN BASE TEN

Grade 5 Content Standards

Sadlier Math, Grade 5

Use place value system understanding to perform operations with multi-digit whole numbers to billions and decimals to thousandths.

5.NBT.A.1 Read, write and identify numbers from billions to thousandths using number names, base ten numerals and expanded form.	Chapter 1: 1-1 & 1-2 Chapter 2: 2-1 & 2-2
5.NBT.A.2 Compare two numbers from billions to thousandths using the symbols >, = or <, and justify the solution.	Chapter 2: 2-3
5.NBT.A.3 Understand that in a multi-digit number, a digit represents 1/10 times what it would represents in the place to its left.	Chapter 1: 1-1, 1-2 & 1-4
5.NBT.A.4 Evaluate the value of powers of 10 and understand the relationship to the place value system.	Chapter 1: 1-3 & 1-4 Chapter 12: 12-1 Chapter 13: 13-1
5.NBT.A.5 Round numbers from billions to thousandths place.	Chapter 2: 2-4 through 2-6 Chapter 10: 10-3 Chapter 11: 11-2
5.NBT.A.6 Add and subtract multi-digit whole numbers and decimals to the thousandths place, and justify the solution.	Chapter 1: 1-5 through 1-7 Chapter 10: 10-1 through 10-7 Chapter 11: 11-1 through 11-6
5.NBT.A.7 Multiply multi-digit whole numbers and decimals to the hundredths place, and justify the solution.	Chapter 3: 3-4 through 3-8 Chapter 12: 12-2 through 12-9
5.NBT.A.8 Divide multi-digit whole numbers and decimals to the hundredths place using up to two-digit divisors and four-digit dividends, and justify the solution.	Chapter 4: 4-3 through 4-9 Chapter 13: 13-1, 13-2, 13-5 through 13-10



NUMBER SENSE AND OPERATIONS IN FRACTIONS

Grade 5 Content Standards

Sadlier Math, Grade 5

Understand the relationship between fractions and decimals (denominators that are factors of 100).

5.NF.A.1 Understand that parts of a whole can be expressed as fractions and/or decimals.	Chapter 2: 2-1 & 2-2
5.NF.A.2 Convert decimals to fractions and fractions to decimals.	Chapter 2: 2-1 & 2-2
5.NF.A.3 Compare and order fractions and/or decimals to the thousandths place using the symbols >, = or <, and justify the solution.	Chapter 2: 2-3 Chapter 5: 5-7
Perform operations and solve problems with frac	tions and decimals.
5.NF.B.4 Estimate results of sums, differences and products with fractions and decimals to the thousandths.	Chapter 6: 6-3 Chapter 7: 7-5 Chapter 8: 8-7 Chapter 10: 10-3 Chapter 11: 11-2 Chapter 12: 12-3
5.NF.B.5 Justify the reasonableness of a product w	hen multiplying with fractions.
5.NF.B.5a Estimate the size of the product based on the size of the two factors.	Chapter 8: 8-7
5.NF.B.5b Explain why multiplying a given number by a fraction greater than 1 results in a product larger than the given number.	Chapter 8: 8-4
5.NF.B.5c Explain why multiplying a given number by a fraction less than 1 results in a product smaller than the given number.	Chapter 8: 8-4

 product smaller than the given number.

 5.NF.B.5d Explain why multiplying the

 numerator and denominator by the same

 number is equivalent to multiplying the

 fraction by 1.



NUMBER SENSE AND OPERATIONS IN FRACTIONS

Grade 5 Content Standards	Sadlier Math, Grade 5
5.NF.B.6 Solve problems involving addition and subtraction of fractions and mixed numbers with unlike denominators, and justify the solution.	Chapter 6: 6-1 through 6-6 Chapter 7: 7-1 through 7-9

5.NF.B.7 Extend the concept of multiplication to multiply a fraction or whole number by a fraction.
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5.NF.B.7a Recognize the relationship between multiplying fractions and finding the areas of rectangles with fractional side lengths.	Chapter 8: 8-10
5.NF.B.7b Calculate and interpret the product of a fraction by a whole number and a whole number by a fraction.	Chapter 8: 8-1 & 8-3
5.NF.B.7c Calculate and interpret the product of two fractions less than one.	Chapter 8: 8-1 & 8-2

5.NF.B.8 Extend the concept of division to divide unit fractions and whole numbers by using visual fraction models and equations.

5.NF.B.8a Calculate and interpret the quotient of a unit fraction by a non-zero whole number.	Chapter 9: 9-4 & 9-5
5.NF.B.8b Calculate and interpret the quotient of a whole number by a unit fraction.	Chapter 9: 9-1 through 9-3, 9-6 & 9-7

RELATIONSHIPS AND ALGEBRAIC THINKING

Grade 5 Content Standards

Sadlier Math, Grade 5

Represent and analyze patterns and relationships.

5.RA.A.1 Investigate the relationship between two numeric patterns.

5.RA.A.1a Generate two numeric patterns given two rules.	Chapter 17: 17-5 through 17-7
5.RA.A.1b Translate two numeric patterns into two sets of ordered pairs.	Chapter 17: 17-6 & 17-7





RELATIONSHIPS AND ALGEBRAIC THINKING

Grade 5 Content Standards	Sadlier Math, Grade 5
5.RA.A.1c Graph numeric patterns on the Cartesian coordinate plane.	Chapter 17: 17-4, 17-6 & 17-7
5.RA.A.1d Identify the relationship between two numeric patterns.	Chapter 17: 17-5 through 17-7
5.RA.A.2 Write a rule to describe or explain a given numeric pattern.	Chapter 17: 17-5 & 17-6
Write and interpret numerical expressions.	
5.RA.B.3 Write, evaluate and interpret numeric expressions using the order of operations.	Chapter 2: 2-2 Chapter 3: 3-1 Chapter 4: 4-10 & 4-11 Chapter 7: 7-2 Chapter 12: 12-7 & 12-8
5.RA.B.4 Translate written expressions into algebraic expressions.	Chapter 1: 1-5 through 1-7 Chapter 3: 3-2 & 3-3 Chapter 4: 4-10 & 4-11
Use the four operations to represent and solve p	roblems.
5.RA.C.5 Solve and justify multi-step problems involving variables, whole numbers, fractions and decimals.	Chapter 10: 10-1 through 10-7 Chapter 11: 11-1 through 11-6 Chapter 12: 12-2 through 12-9 Chapter 13: 13-1, 13-2, 13-5 through 13-10
GEOMETRY AND MEASUREMENT	
Grade 5 Content Standards	Sadlier Math, Grade 5
Classify two- and three-dimensional geometric shapes.	
5.GM.A.1 Understand that attributes belonging to a category of figures also belong to all subcategories.	Chapter 15: 15-1 through 15-5

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GEOMETRY AND MEASUREMENT	
Grade 5 Content Standards	Sadlier Math, Grade 5
5.GM.A.2 Classify figures in a hierarchy based on properties.	Chapter 15: 15-2, 15-4 & 15-5
5.GM.A.3 Analyze and describe the properties of prisms and pyramids.	Chapter 16: 16-1
Understand and compute volume.	
5.GM.B.4 Understand the concept of volume and recognize that volume is measured in cubic units.	
5.GM.B.4a Describe a cube with edge length 1 unit as a "unit cube" and is said to have "one cubic unit" of volume and can be used to measure volume.	Chapter 16: 16-2 & 16-3
5.GM.B.4b Understand that the volume of a right rectangular prism can be found by stacking multiple layers of the base.	Chapter 16: 16-3 & 16-6
5.GM.B.5 Apply the formulas $V = I \times w \times h$ and $V = B \times h$ for volume of right rectangular prisms with whole-number edge lengths.	Chapter 16: 16-4 & 16-5
Graph points on the Cartesian coordinate plane v	within the first quadrant to solve problems.
5.GM.C.6 Define a first quadrant Cartesian coordina	ate system.
5.GM.C.6a Represent the axes as scaled perpendicular number lines that both intersect at 0, the origin.	Chapter 17: 17-3 & 17-4
5.GM.C.6b Identify any point on the Cartesian coordinate plane by its ordered pair coordinates.	Chapter 17: 17-3 & 17-4
5.GM.C.6c Define the first number in an ordered pair as the horizontal distance from the origin.	Chapter 17: 17-3 & 17-4
5.GM.C.6d Define the second number in an ordered pair as the vertical distance from the origin.	Chapter 17: 17-3 & 17-4

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GEOMETRY AND MEASUREMENT	
Grade 5 Content Standards	Sadlier Math, Grade 5
5.GM.C.7 Plot and interpret points in the first quadrant of the Cartesian coordinate plane.	Chapter 17: 17-3
Solve problems involving measurement and conversions within a measurement system.	
5.GM.D.8 Convert measurements of capacity, length and weight within a given measurement system.	Chapter 14: 14-1 through 14-9
5.GM.D.9 Solve multi-step problems that require measurement conversions.	Chapter 14: 14-1 through 14-9
DATA AND STATISTICS	
Grade 5 Content Standards	Sadlier Math, Grade 5
Represent and analyze data.	
5.DS.A.1 Create a line graph to represent a data set, and analyze the data to answer questions and solve problems.	See Grade 4 Chapter 15: 15-5
5.DS.A.2 Create a line plot to represent a given or generated data set, and analyze the data to answer questions and solve problems, recognizing the outliers and generating the median.	Chapter 17: 17-1 & 17-2

