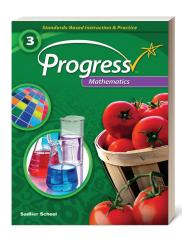
SADLIER

ProgressMathematics

Standards-Based Instruction & Practice



Aligned to the

South CarolinaCollege- and Career-Ready Standards for Mathematics

Grade 3

Contents

Number Sense and Base Ten	2
Number Sense and Operations—Fractions	2
Algebraic Thinking and Operations	3
Geometry	4
Measurement and Data Analysis	5



Number Sense and Base Ten

STANDAR	DS	SADLIER PR	OGRESS MATHEMATICS, GRADE 3
The stude	nt will:		
3.NSBT.1	Use place value understanding to round whole numbers to the nearest 10 or 100.	Lesson 13	Round Whole Numbers to the Nearest 10 or 100—pp. 112–119
3.NSBT.2	Add and subtract whole numbers fluently to 1,000 using knowledge of place value and properties of operations.	Lesson 14	Add and Subtract Fluently within 1000—pp. 120–127
3.NSBT.3	Multiply one-digit whole numbers by multiples of 10 in the range 10 – 90, using knowledge of place value and properties of operations.	Lesson 15	Multiply One-Digit Whole Numbers by Multiples of 10—pp. 128–135
3.NSBT.4	Read and write numbers through 999,999 in standard form and equations in expanded form.		*See Grade 2: Lesson 8, Read and Write Numbers to 1,000—pp. 72–79
3.NSBT.5	Compare and order numbers through 999,999 and represent the comparison using the symbols >, =, or <.		*See Grade 2: Lesson 9, Compare Numbers— pp. 80–87

Number Sense — Fractions

STANDA	RDS		SADLIER PR	ROGRESS MATHEMATICS, GRADE 3
The stud	ent w	ill:		
3.NSF.1		velop an understanding of fractions (i.e., nominators 2, 3, 4, 6, 8, 10) as numbers.		
	a.	A fraction $1/b$ (called a unit fraction) is the quantity formed by one part when a whole is partitioned into b equal parts;	Lesson 16	Understand Unit Fractions as Quantities —pp. 142–149
	b.	A fraction a/b is the quantity formed by a parts of size $1/b$;	Lesson 17	Understand Fractions as Quantities—pp. 150–157
	c.	A fraction is a number that can be represented on a number line based on counts of a unit fraction;	Lesson 18	Understand Fractions on the Number Line— pp. 158–165
	d.	A fraction can be represented using set, area, and linear models.	Lesson 16	Understand Unit Fractions as Quantities —pp. 142–149
			Lesson 17	Understand Fractions as Quantities —pp. 150–157
			Lesson 18	Understand Fractions on the Number Line —pp. 158–165



Number Sense — Fractions

Standards		SADLIER PR	ROGRESS MATHEMATICS, GRADE 3	
3.NSF.2		plain fraction equivalence (i.e., denominators 2, 4, 6, 8, 10) by demonstrating an understanding at:		
	a.	two fractions are equal if they are the same size, based on the same whole, or at the same point on a number line;	Lesson 19	Understand Equivalent Fractions—pp. 166– 173
	b.	fraction equivalence can be represented using set, area, and linear models;	Lesson 19	Understand Equivalent Fractions—pp. 166– 173
			Lesson 20	Write Equivalent Fractions—pp. 174–181
	c.	whole numbers can be written as fractions (e.g., $4 = 4/1$ and $1 = 4/4$);	Lesson 21	Relate Whole Numbers and Fractions—pp. 182–189
	d.	fractions with the same numerator or same denominator can be compared by reasoning about their size based on the same whole.	Lesson 22	Compare Fractions: Same Denominator—pp. 190–197
		about their size based on the same whole.	Lesson 23	Compare Fractions: Same Numerator—pp. 198–205
3.NSF.3	de	velop an understanding of mixed numbers (i.e., nominators 2, 3, 4, 6, 8, 10) as iterations of unit ctions on a number line.		*See Grade 4: Lesson 18, Decompose a Fraction as a Sum of Fractions (mixed numbers)—pp. 158–165; Lesson 19, Add and Subtract Mixed Numbers with Like Denominators (mixed numbers on a number line)—pp. 166–173

Algebraic Thinking and Operations

Standa	RDS	SADLIER PRO	OGRESS MATHEMATICS, GRADE 3
The stud	ent will:		
3.ATO.1	Use concrete objects, drawings and symbols to represent multiplication facts of two single-digit whole numbers and explain the relationship between the factors (i.e., 0 – 10) and the product.	Lesson 1	Interpret Products of Whole Numbers—pp. 10–17
3.ATO.2	Use concrete objects, drawings and symbols to represent division without remainders and explain the relationship among the whole number quotient (i.e., 0 – 10), divisor (i.e., 0 – 10), and dividend.	Lesson 2	Interpret Quotients of Whole Numbers— pp. 18–26
3.ATO.3	Solve real-world problems involving equal groups, area/array, and number line models using basic multiplication and related division facts. Represent	Lesson 3	Problem Solving: Multiplication/Division and Equal Groups—pp. 26–33
	the problem situation using an equation with a symbol for the unknown.	Lesson 4	Problem Solving: Multiplication/Division and Arrays—pp. 34–41



Algebraic Thinking and Operations

STANDA	RDS	SADLIER PRO	GRESS MATHEMATICS, GRADE 3
		Lesson 32	Additional Aligned Instruction Problem Solving: Measurement—pp. 288–295
3.ATO.4	Determine the unknown whole number in a multiplication or division equation relating three whole numbers when the unknown is a missing factor, product, dividend, divisor, or quotient.	Lesson 5	Find Unknown Numbers in Multiplication and Division Equations—pp. 42–49
3.ATO.5	Apply properties of operations (i.e., Commutative Property of Multiplication, Associative Property of Multiplication, Distributive Property) as strategies	Lesson 6	Apply Commutative and Associative Properties to Multiply—pp. 50–57
	to multiply and divide and explain the reasoning.	Lesson 7	Apply the Distributive Property to Multiply—pp. 58-65
3.ATO.6	Understand division as a missing factor problem.	Lesson 8	Divide by Finding an Unknown Factor—pp. 66–73
3.ATO.7	Demonstrate fluency with basic multiplication and related division facts of products and dividends through 100.	Lesson 9	Multiply and Divide Fluently within 100—pp. 80–87
3.ATO.8	Solve two-step real-world problems using addition, subtraction, multiplication and division of whole numbers and having whole number answers.	Lesson 10	Problem Solving: Two-Step Problems— pp. 88–95
	Represent these problems using equations with a letter for the unknown quantity.	Lesson 11	Problem Solving: Use Equations—pp. 96– 103
3.ATO.9	Identify a rule for an arithmetic pattern (e.g., patterns in the addition table or multiplication table).	Lesson 12	Identify and Explain Arithmetic Patterns—pp. 104–111

Geometry

STAND	ARDS	Sadlier Pr	OGRESS MATHEMATICS, GRADE 3
The stud	dent will:		
3.G.1	Understand that shapes in different categories (e.g., rhombus, rectangle, square, and other 4-sided shapes) may share attributes (e.g., 4-sided figures) and the shared attributes can define a larger category (e.g., quadrilateral). Recognize rhombuses, rectangles, and squares as examples of quadrilaterals, and draw examples of quadrilaterals that do not belong to any of these subcategories.	Lesson 35	Understand Shapes and Attributes—pp. 312–319

Geometry

Standards		Sadlier Progress Mathematics, Grade 3	
3.G.2	Partition two-dimensional shapes into 2, 3, 4, 6, or 8 parts with equal areas and express the area of each part using the same unit fraction. Recognize that equal parts of identical wholes need not have the same shape.	Lesson 36	Partition Shapes to Make Equal Areas—pp. 320–327
3.G.3	Use a right angle as a benchmark to identify and sketch acute and obtuse angles.	Lesson 35	Understand Shapes and Attributes (right angles)—pp. 312–319
			*For acute and obtuse angles, see Grade 4: Lesson 32, Use a Protractor to Measure Angles—pp. 282–289
3.G.4	Identify a three-dimensional shape (i.e., right rectangular prism, right triangular prism, pyramid) based on a given two-dimensional net and explain the relationship between the shape and the net.		

Measurement and Data Analysis

Standards		SADLIER PROGRESS MATHEMATICS, GRADE 3	
The stude	ent will:		
3.MDA.1	Use analog and digital clocks to determine and record time to the nearest minute, using a.m. and p.m.; measure time intervals in minutes; and solve problems involving addition and subtraction of time intervals within 60 minutes.	Lesson 24	Problem Solving: Time—pp. 218–225
3.MDA.2	Estimate and measure liquid volumes (capacity) in customary units (i.e., c., pt., qt., gal.) and metric units (i.e., mL, L) to the nearest whole unit.	Lesson 25	Problem Solving: Volumes and Masses—pp. 226–233
3.MDA.3	Collect, organize, classify, and interpret data with multiple categories and draw a scaled picture graph and a scaled bar graph to represent the data.	Lesson 26	Draw Graphs to Represent Categorical Data—pp. 234–241
3.MDA.4	Generate data by measuring length to the nearest inch, half-inch and quarter-inch and organize the data in a line plot using a horizontal scale marked off in appropriate units.	Lesson 27	Generate and Graph Measurement Data —pp. 242–249
3.MDA.5	Understand the concept of area measurement.		
	a. Recognize area as an attribute of plane figures;	Lesson 28	Understand Concepts of Area Measurement—pp. 256–263
	b. Measure area by building arrays and counting standard unit squares;	Lesson 28	Understand Concepts of Area Measurement—pp. 256–263



Measurement and Data Analysis

Standar	DS	SADLIER PR	OGRESS MATHEMATICS, GRADE 3
	c. Determine the area of a rectilinear polygon and relate to multiplication and addition.	Lesson 29	Find Areas of Rectangles: Tile and Multiply—pp. 264–271
3.MDA.6	Solve real-world and mathematical problems involving perimeters of polygons, including finding the perimeter given the side lengths, finding an unknown side length, and exhibiting rectangles with the same perimeter and different areas or with the same area and different perimeters.	Lesson 33	Problem Solving: Perimeter—pp. 296–303
		Lesson 34	Problem Solving: Compare Perimeter and Area—pp. 304–311