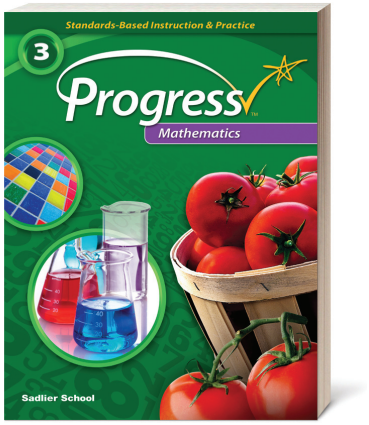
SADLIER

Progress Mathematics

Standards-Based Instruction & Practice



Aligned to the

Pennsylvania Core Standards for Mathematics

Grade 3

Contents

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2.1 Numbers and Operations

Mathematics Standards		Sadlier *Progress Mathematics*, Grade 3
(B) Numbers & Operations in Base Ten		
CC.2.1.3.B.1	Apply place value understanding and properties of operations to perform multi-digit arithmetic.	**Lesson 13** **Round Whole Numbers to the Nearest 10 or 100**—pp. 112–119
		Lesson 14 **Add and Subtract Fluently within 1000**—pp. 120–127
		Lesson 15 **Multiply One-Digit Whole Numbers by Multiples of 10**—pp. 128–135

2.1 Numbers and Operations

Mathematics Standards		Sadlier *Progress Mathematics*, Grade 3
(C) Numbers & Operations—Fractions		
CC.2.1.3.C.1	Explore and develop an understanding of fractions as numbers.	**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
		Lesson 19 **Understand Equivalent Fractions**—pp. 166–173
		Lesson 20 **Write Equivalent Fractions**—pp. 174–181
		Lesson 21 **Relate Whole Numbers and Fractions**—pp. 182–189

2.2 Algebraic Concepts

Mathematics Standards		Sadlier *Progress Mathematics*, Grade 3
(A) Operations and Algebraic Thinking		
CC.2.2.3.A.1	Represent and solve problems involving multiplication and division.	**Lesson 1** **Interpret Products of Whole Numbers**—pp. 10–17
		Lesson 2 **Interpret Quotients of Whole Numbers**—pp. 18–26
		Lesson 3 **Problem Solving: Multiplication/Division and Equal Groups**—pp. 26–33
		Lesson 4 **Problem Solving: Multiplication/Division and Arrays**—pp. 34–41

2.2 Algebraic Concepts

Mathematics Standards		Sadlier *Progress Mathematics*, Grade 3
		Lesson 32 **Problem Solving: Measurement**—pp. 288–295
CC.2.2.3.A.2	Understand properties of multiplication and the relationship between multiplication and division.	**Lesson 6** **Apply Commutative and Associative Properties to Multiply**—pp. 50–57
		Lesson 7 **Apply the Distributive Property to Multiply**—pp. 58–65
		Lesson 8 **Divide by Finding an Unknown Factor**—pp. 66–73
CC.2.2.3.A.3	Demonstrate multiplication and division fluency.	**Lesson 9** **Multiply and Divide Fluently within 100**—pp. 80–87
CC.2.2.3.A.4	Solve problems involving the four operations, and identify and explain patterns in arithmetic.	**Lesson 10** **Problem Solving: Two-Step Problems**—pp. 88–95
		Lesson 11 **Problem Solving: Use Equations**—pp. 96–103
		Lesson 12 **Identify and Explain Arithmetic Patterns**—pp. 104–111

2.3 Geometry

Mathematics Standards		Sadlier *Progress Mathematics*, Grade 3
(A) Geometry		
CC.2.3.3.A.1	Identify, compare, and classify shapes and their attributes	**Lesson 35** **Understand Shapes and Attributes**—pp. 312–319
CC.2.3.3.A.2	Use the understanding of fractions to partition shapes into parts with equal areas and express the area of each part as a unit fraction of the whole.	**Lesson 36** **Partition Shapes to Make Equal Areas**—pp. 320–327

2.4 Measurement, Data, and Probability

Mathematics Standards		Sadlier *Progress Mathematics*, Grade 3
(A) Measurement and Data		
CC.2.4.3.A.1	Solve problems involving measurement and estimation of temperature, liquid volume, mass or length.	**Lesson 25** **Problem Solving: Volumes and Masses**—pp. 226–233
		Lesson 32 **Problem Solving: Measurement**—pp. 288–295
CC.2.4.3.A.2	Tell and write time to the nearest minute and solve problems by calculating time intervals.	**Lesson 24** **Problem Solving: Time**—pp. 218–225
CC.2.4.3.A.3	Solve problems involving money using a combination of coins and bills.	**Problem-Solving Model** **A Spending Problem**—p. 345

2.4 Measurement, Data, and Probability

Mathematics Standards		Sadlier *Progress Mathematics*, Grade 3
CC.2.4.3.A.4	Represent and interpret data using tally charts, tables, pictographs, line plots, and bar graphs.	**Lesson 26** **Draw Graphs to Represent Categorical Data**—pp. 234–241 **Lesson 27** **Generate and Graph Measurement Data**—pp. 242–249
CC.2.4.3.A.5	Determine the area of a rectangle and apply the concept to multiplication and to addition.	**Lesson 28** **Understand Concepts of Area Measurement**—pp. 256–263 **Lesson 29** **Find Areas of Rectangles: Tile and Multiply**—pp. 264–271
CC.2.4.3.A.6	Solve problems involving perimeters of polygons and distinguish between linear and area measures.	**Lesson 28** **Understand Concepts of Area Measurement**—pp. 256–263 **Lesson 29** **Find Areas of Rectangles: Tile and Multiply**—pp. 264–271 **Lesson 31** **Find Areas: Decompose Figures into Rectangles**—pp. 280–287 **Lesson 32** **Problem Solving: Measurement**—pp. 288–295 **Lesson 33** **Problem Solving: Perimeter**—pp. 296–303 **Lesson 34** **Problem Solving: Compare Perimeter and Area**—pp. 304–311