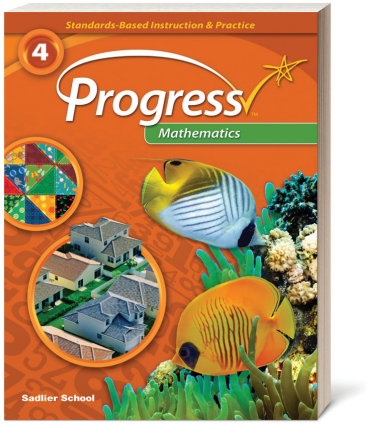
SADLIER

Progress Mathematics

Standards-Based Instruction & Practice



Aligned to the

Pennsylvania Core Standards for Mathematics

Grade 4

Contents

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2.1 Numbers and Operations

Mathematics Standards		Sadlier *Progress Mathematics*, Grade 4
(B) Numbers & Operations in Base Ten		
CC.2.1.4.B.1	Apply place value concepts to show an understanding of multi-digit whole numbers.	**Lesson 6** **Understand Place Value of Whole Numbers**—pp. 56–63
		Lesson 7 **Read, Write, and Compare Whole Numbers**—pp. 64–71
		Lesson 8 **Read, Write, and Compare Whole Numbers**—pp. 64–71
CC.2.1.4.B.2	Use place value understanding and properties of operations to perform multi- digit arithmetic.	**Lesson 9** **Add and Subtract Fluently with Whole Numbers**—pp. 80–87
		Lesson 10 **Multiply Whole Numbers: Use Place Value**—pp. 88–95
		Lesson 11 **Multiply Whole Numbers: Use Properties of Operations**—pp. 96–103
		Lesson 12 **Divide Whole Numbers: Use Place Value**—pp. 104–111
		Lesson 13 **Divide Whole Numbers: Use Properties of Operations**—pp. 112–119

2.1 Numbers and Operations

Mathematics Standards		Sadlier *Progress Mathematics*, Grade 4
(C) Numbers & Operations—Fractions		
CC.2.1.4.C.1	Extend the understanding of fractions to show equivalence and ordering.	**Lesson 14** **Understand Equivalent Fractions**—pp. 126–133
		Lesson 15 **Write Equivalent Fractions**—pp. 134–141
		Lesson 16 **Compare Two Fractions**—pp. 142–149
		Lesson 18 **Decompose a Fraction as a Sum of Fractions**—pp. 158–165
CC.2.1.4.C.2	Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.	**Lesson 17** **Add and Subtract Fractions with Like Denominators**—pp. 150–157
		Lesson 19 **Add and Subtract Mixed Numbers with Like Denominators**—pp. 166–173
		Lesson 20 **Problem Solving: Add and Subtract Fractions**—pp. 174–181
		Lesson 18 **Decompose a Fraction as a Sum of Fractions**—pp. 158–165

2.1 Numbers and Operations

Mathematics Standards		Sadlier *Progress Mathematics*, Grade 4
		Lesson 21 **Multiply Unit Fractions by Whole Numbers**—pp. 182–189
		Lesson 22 **Multiply Fractions by Whole Numbers**—pp. 190–197
		Lesson 23 **Problem Solving: Multiply Fractions by Whole Numbers**—pp. 198–205
CC.2.1.4.C.3	Connect decimal notation to fractions, and compare decimal fractions (base 10 denominator, e.g. ,19/100).	**Lesson 25** **Write and Compare Decimal Fractions**—pp. 214–221

2.2 Algebraic Concepts

Mathematics Standards		Sadlier *Progress Mathematics*, Grade 4
(A) Operations and Algebraic Thinking		
CC.2.2.4.A.1	Represent and solve problems involving the four operations.	**Lesson 1** **Interpret Multiplication Equations as Comparisons**—pp. 10–17
		Lesson 2 **Problem Solving: Use Multiplication and Division to Make Comparisons**—pp. 18–25
		Lesson 3 **Problem Solving: Multistep Problems**—pp. 26–33
CC.2.2.4.A.2	Develop and/or apply number theory concepts to find factors and multiples.	**Lesson 4** **Find Factors and Multiples for Whole Numbers**—pp. 34–41
CC.2.2.4.A.4	Generate and analyze patterns using one rule.	**Lesson 5** **Generate and Analyze Number and Shape Patterns**—pp. 42–49

2.3 Geometry

Mathematics Standards		Sadlier *Progress Mathematics*, Grade 4
(A) Geometry		
CC.2.3.4.A.1	Draw lines and angles and identify these in two-dimensional figures.	**Lesson 34** **Draw and Identify Points, Lines, and Angles**—pp. 304–311
CC.2.3.4.A.2	Classify two-dimensional figures by properties of their lines and angles.	**Lesson 35** **Classify Two-Dimensional Figures**—pp. 312–319
CC.2.3.4.A.3	Recognize symmetric shapes and draw lines of symmetry.	**Lesson 36** **Identify Lines of Symmetry**—pp. 320–327

2.4 Measurement, Data, and Probability

Mathematics Standards		Sadlier *Progress Mathematics*, Grade 4
(A) Measurement and Data		
CC.2.4.4.A.1	Solve problems involving measurement and conversions from a larger unit to a smaller unit.	**Lesson 26** **Convert Customary Measurement Units**—pp. 234–241
		Lesson 27 **Convert Metric Measurement Units**—pp. 242–249
		Lesson 28 **Problem Solving: Measurement**—pp. 250–257
		Lesson 29 **Problem Solving: Apply Area and Perimeter Formulas**—pp. 258–265
CC.2.4.4.A.4	Represent and interpret data involving fractions using information provided in a line plot.	**Lesson 30** **Problem Solving: Use Line Plots**—pp. 266–273
CC.2.4.4.A.6	Measure angles and use properties of adjacent angles to solve problems.	**Lesson 31** **Understand Angle Measures**—pp. 274–281
		Lesson 32 **Use a Protractor to Measure Angles**—pp. 282–289
		Lesson 33 **Problem Solving: Find Unknown Angle Measures**—pp. 290–297