SADLIER

# **Common Core Progress Mathematics**

Aligned to the

Arkansas Common Core State Standards: Mathematics

## Grade 1

## Contents

- 2 Operations and Algebraic Thinking
- 3 Number and Operations in Base Ten
- 4 Measurement and Data
- 5 Geometry



GRADE 1 STANDARDS / DESCRIPTION		SADLIER COMMON CORE PROGRESS MATHEMATICS, GRADE 1	
	ent and solve problems involving n and subtraction.		
1.OA.A.1	Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.	Lesson 1	Problem Solving: Addition—pp. 10–17
		Lesson 2	Problem Solving: Subtraction—pp. 18–25
1.OA.A.2	Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.	Lesson 3	<b>Problem Solving: Addition of Three</b> <b>Numbers</b> —pp. 26–33
	and and apply properties of operations relationship between addition and tion.		
1.OA.B.3	Apply properties of operations as strategies to add and subtract. <sup>2</sup>	Lesson 4	Apply Properties of Operations—pp. 34–41
	Examples: If $8 + 3 = 11$ is known, then $3 + 8 = 11$ is also known. (Commutative property of addition.) To add $2 + 6 + 4$ , the second two numbers can be added to make a ten, so $2 + 6 + 4 = 2 + 10 = 12$ . (Associative property of addition.)		
	<sup>2</sup> Students need not use formal terms for these properties.		
1.OA.B.4	Understand subtraction as an unknown-addend problem.	Lesson 5	Relate Addition and Subtraction Facts—pp 42–49
	For example, subtract 10 – 8 by finding the number that makes 10 when added to 8.		
Add and	d subtract within 20.		
1.OA.C.5	Relate counting to addition and subtraction (e.g., by counting on 2 to add 2).	Lesson 6	Relate Counting to Addition and Subtraction—pp. 50–57
1.OA.C.6	Add and subtract within 20, demonstrating fluency for addition and subtraction within 10. Use strategies such as counting on; making ten (e.g., $8 + 6 = 8 + 2 + 4 = 10 + 4 = 14$ ); decomposing a number leading to a ten (e.g., $13 - 4 = 13 - 3 - 1$ = 10 - 1 = 9); using the relationship between addition and subtraction (e.g., knowing that $8 + 4$ = 12, one knows $12 - 8 = 4$ ); and creating	Lesson 7	Addition and Subtraction Facts to 10 (fluency)—pp. 58–65
		Lesson 8	Addition and Subtraction Facts to 20—pp. 66–73

Opera	ations and Algebraic Thinki	ng	
GRADE 1 STANDARDS / DESCRIPTION		SADLIER COMMON CORE PROGRESS MATHEMATICS, GRADE 1	
	equivalent but easier or known sums (e.g., adding $6 + 7$ by creating the known equivalent $6 + 6 + 1 = 12 + 1 = 13$ ).		
Work wi	th addition and subtraction equations.		
1.OA.D.7	Understand the meaning of the equal sign, and determine if equations involving addition and subtraction are true or false.	Lesson 9	Addition and Subtraction Equations—pp. 74– 81
	For example, which of the following equations are true and which are false? $6 = 6$ , $7 = 8 - 1$ , $5 + 2 = 2 + 5$ , $4 + 1 = 5 + 2$ .		
1.OA.D.8	Determine the unknown whole number in an addition or subtraction equation relating three whole numbers. For example, determine the unknown number that makes the equation true in each of the equations $8 + ? = 11, 5 = -3, 6 + 6 = -3$ .	Lesson 10	<b>Find Missing Numbers in Equations</b> —pp. 82– 95
Numb	per and Operations in Base	Ten	
GRADE 1 STANDARDS / DESCRIPTION		SADLIER CO	DMMON CORE PROGRESS MATHEMATICS, GRADE 1
Extend t	the counting sequence.		

Count to 120, starting at any number less than 1.NBT.A.1 120. In this range, read and write numerals and represent a number of objects with a written numeral.

Understand place value.

- 1.NBT.B.2 Understand that the two digits of a two-digit number represent amounts of tens and ones. Understand the following as special cases:
  - 1.NBT.B.2a 10 can be thought of as a bundle of ten ones — called a "ten."
  - 1.NBT.B.2b The numbers from 11 to 19 are composed of a ten and one, two, three, four, five, six, seven, eight, or nine ones.
  - 1.NBT.B.2c The numbers 10, 20, 30, 40, 50, 60, 70, 80, 90 refer to one, two, three, four, five, six, seven, eight, or nine tens (and 0 ones).

Count to 120-pp. 96-103 Lesson 11

Read and Write Numbers—pp. 104–111 Lesson 12

Lesson 13	Understand Place Value: Tens and Ones—pp. 112–119
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#### Number and Operations in Base Ten **GRADE 1 STANDARDS / DESCRIPTION** SADLIER COMMON CORE PROGRESS MATHEMATICS, GRADE 1 1.NBT.B.3 Compare two two-digit numbers based on Lesson 14 Compare Numbers—pp. 120–127 meanings of the tens and ones digits, recording the results of comparisons with the symbols >, =, and <. Use place value understanding and properties of operations to add and subtract. 1.NBT.C.4 Add within 100, including adding a two-digit Lesson 15 Add Two-Digit Numbers—pp. 128–135 number and a one-digit number, and adding a two-digit number and a multiple of 10, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used. Understand that in adding two-digit numbers, one adds tens and tens, ones and ones; and sometimes it is necessary to compose a ten. 1.NBT.C.5 Given a two-digit number, mentally find 10 more Lesson 16 Find 10 More and 10 Less—pp. 136–143 or 10 less than the number, without having to count; explain the reasoning used. Lesson 17 1.NBT.C.6 Subtract multiples of 10 in the range 10–90 from Subtract Multiples of 10—pp. 144–161 multiples of 10 in the range 10-90 (positive or zero differences), using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used. Measurement and Data GRADE 1 STANDARDS / DESCRIPTION SADLIER COMMON CORE PROGRESS MATHEMATICS, GRADE 1 Measure lengths indirectly and by iterating length units. 1.MD.A.1 Order three objects by length; compare the Lesson 18 Compare and Order Lengths—pp. 162–169

Lesson 19 Measure Length in Length Units—pp. 170– 177

object.

1.MD.A.2

lengths of two objects indirectly by using a third

number of length units, by laying multiple copies

of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps. *Limit to* 

Express the length of an object as a whole

## Measurement and Data

#### GRADE 1 STANDARDS / DESCRIPTION

contexts where the object being measured is spanned by a whole number of length units with no gaps or overlaps.

#### Tell and write time.

1.MD.B.3 Tell and write time in hours and half-hours using analog and digital clocks.

Represent and interpret data.

1.MD.C.4 Organize, represent, and interpret data with up to three categories; ask and answer questions about the total number of data points, how many in each category, and how many more or less are in one category than in another.

### Geometry

GRADE 1 STANDARDS / DESCRIPTION

Reason with shapes and their attributes.

- 1.G.A.1 Distinguish between defining attributes (e.g., triangles are closed and three-sided) versus nondefining attributes (e.g., color, orientation, overall size); build and draw shapes to possess defining attributes.
- 1.G.A.2 Compose two-dimensional shapes (rectangles, squares, trapezoids, triangles, half-circles, and quarter-circles) or three-dimensional shapes (cubes, right rectangular prisms, right circular cones, and right circular cylinders) to create a composite shape, and compose new shapes from the composite shape.<sup>1</sup>

<sup>1</sup>Students do not need to learn formal names such as "right rectangular prism."

1.G.A.3 Partition circles and rectangles into two and four equal shares, describe the shares using the words *halves*, *fourths*, and *quarters*, and use the phrases *half of*, *fourth of*, and *quarter of*. Describe the whole as two of, or four of the shares. Understand for these examples that decomposing into more equal shares creates smaller shares.

SADLIER COMMON CORE PROGRESS MATHEMATICS, GRADE 1

Lesson 20 Tell Time—pp. 178–185

Lesson 22 Use Tables—pp. 194–207

SADLIER COMMON CORE PROGRESS MATHEMATICS, GRADE 1

Lesson 23 Identify Shapes—pp. 208–215

Lesson 24 Two-Dimensional Shapes—pp. 216–223

Lesson 25 Three-Dimensional Shapes—pp. 224–231

Lesson 26 Equal Shares—pp. 232–239