SADLIER

Common Core Progress Mathematics

Aligned to

Arizona's College and Career Ready Standards – Mathematics

First Grade

Contents

- 2 Operations and Algebraic Thinking (OA)
- 3 Number and Operations in Base Ten (NBT)
- 4 Measurement and Data (MD)
- 5 Geometry (G)



Operations and Algebraic Thinking (OA)

Represent and solve problems involving addition 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. 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. Understand and apply properties of operations and the relationship between addition and subtraction. 1.OA.B.3 Apply properties of operations as strategies to add and subtract. 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	
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property of addition.) (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 Factorial 42–49	i cts —pp.
For example, subtract 10 – 8 by finding the number that makes 10 when added to 8.	
Add and 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	10
(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	≥0 —pp.
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Operations and Algebraic Thinking (OA)

FIRST GRADE STANDARDS / DESCRIP	NOITS

SADLIER COMMON CORE PROGRESS MATHEMATICS, GRADE 1

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equivalent but easier or known sums (e.g., adding 6 + 7 by creating the known equivalent 6 + 6 + 1 = 12 + 1 = 13).

Work with 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.

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 $8 + ? = 11, 5 = \square - 3, 6 + 6 = \square$.

Lesson 9 Addition and Subtraction Equations—pp. 74–

Lesson 10 Find Missing Numbers in Equations—pp. 82–

Number and Operations in Base Ten (NBT)

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FIRST GRAD	DE STA	ANDARDS / DESCRIPTION	SADLIER COM	MMON CORE PROGRESS MATHEMATICS, GRADE 1
Extend t	the	counting sequence.		
1.NBT.A.1		unt to 120, starting at any number less than 0. In this range, read and write numerals and	Lesson 11	Count to 120—pp. 96–103
	rep	oresent a number of objects with a written meral.	Lesson 12	Read and Write Numbers—pp. 104–111
Underst	and	place value.		
1.NBT.B.2	nu	derstand that the two digits of a two-digit mber represent amounts of tens and ones. derstand the following as special cases:		
	a.	10 can be thought of as a bundle of ten ones — called a "ten."	Lesson 13	Understand Place Value: Tens and Ones—pp. 112–119
	b.	The numbers from 11 to 19 are composed of a ten and one, two, three, four, five, six, seven, eight, or nine ones.	Lesson 13	Understand Place Value: Tens and Ones—pp. 112–119
	c.	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).	Lesson 13	Understand Place Value: Tens and Ones—pp. 112–119

Number and Operations in Base Ten (NBT)

FIRST GRADE STANDARDS / DESCRIPTION		SADLIER COMMON CORE PROGRESS MATHEMATICS, GRA	
1.NBT.B.3	Compare two two-digit numbers based on meanings of the tens and ones digits, recording the results of comparisons with the symbols >, =, and <.	Lesson 14	Compare Numbers—pp. 120–127
	e value understanding and properties tions to add and subtract.		
1.NBT.C.4	Add within 100, including adding a two-digit 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.	Lesson 15	Add Two-Digit Numbers—pp. 128–13.
1.NBT.C.5	Given a two-digit number, mentally find 10 more or 10 less than the number, without having to count; explain the reasoning used.	Lesson 16	Find 10 More and 10 Less—pp. 136–14
1.NBT.C.6	Subtract multiples of 10 in the range 10–90 from 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.	Lesson 17	Subtract Multiples of 10—pp. 144–16
Meas	urement and Data (MD)		
FIRST GRAD	E STANDARDS / DESCRIPTION	SADLIER COM	MMON CORE PROGRESS MATHEMATICS, GRAD
Measure	e lengths indirectly and by iterating		

FIRST GRADE STANDARDS / DESCRIPTION		SADLIER COM	MMON CORE PROGRESS MATHEMATICS, GRADE 1
Measure length u	e lengths indirectly and by iterating units.		
1.MD.A.1	Order three objects by length; compare the lengths of two objects indirectly by using a third object.	Lesson 18	Compare and Order Lengths—pp. 162–169
1.MD.A.2	Express the length of an object as a whole 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	Lesson 19	Measure Length in Length Units—pp. 170– 177
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Measurement and Data (MD)

FIRST GRADE STANDARDS / DESCRIP	MOITS

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object is the number of same-size length units that span it with no gaps or overlaps. Limit to contexts where the object being measured is spanned by a whole number of length units with no gaps or overlaps.

SADLIER COMMON CORE PROGRESS MATHEMATICS, GRADE 1

Tell and write time.

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

Lesson 20 Tell Time—pp. 178–185

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. Lesson 22 Use Tables—pp. 194–207

Geometry (G)

FIRST GRADE STANDARDS / DESCRIPTION

SADLIER COMMON CORE PROGRESS MATHEMATICS, GRADE 1

Reason with shapes and their attributes.

1.G.A.1 Distinguish between defining attributes (e.g., triangles are closed and three-sided) versus non-defining attributes (e.g., color, orientation, overall size); build and draw shapes to possess defining attributes.

Lesson 23 Identify Shapes—pp. 208–215

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. (Students do not need to learn formal names such as "right rectangular prism.")

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

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

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.

Lesson 26 Equal Shares—pp. 232–239