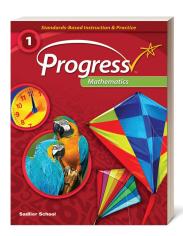
SADLIER

Progress Mathematics

Standards-Based Instruction & Practice



Aligned to the 2015 Revised

Alabama Course of Study: Mathematics

Grade 1

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Operations and Algebraic Thinking

GRA	ade 1 Standards	SADLIER PR	OGRESS MATHEMATICS, GRADE 1
	resent and solve problems involving lition and subtraction.		
	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. (See Appendix A, Table 1.) [1-OA1]	Lesson 1	Problem Solving: Addition—pp. 10-17
		Lesson 2	Problem Solving: Subtraction—pp. 18–25
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. [1-OA2]	Lesson 3	Problem Solving: Addition of Three Numbers—pp. 26–33
and	derstand and apply properties of operations the relationship between addition and traction.		
3.	Apply properties of operations as strategies to add and subtract. [1-OA3]	Lesson 41	Sort and Count—pp. 195–198
	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.)		
4.	Understand subtraction as an unknown-addend problem. [1-OA4]	Lesson 5	Relate Addition and Subtraction Facts—pp. 42–49
	Example: Subtract 10 – 8 by finding the number that makes 10 when added to 8.		
Add	and subtract within 20.		
5.	Relate counting to addition and subtraction (e.g., by counting on 2 to add 2). [1-OA5]	Lesson 6	Relate Counting to Addition and Subtraction—pp. 50–57
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 equivalent but easier or known sums (e.g., adding $6+7$ by creating the known equivalent $6+6+1=12+1=13$). [1-OA6]	Lesson 7	Addition and Subtraction Facts to 10 (fluency)—pp. 58–65
		Lesson 8	Addition and Subtraction Facts to 20—pp. 66-73

Operations and Algebraic Thinking

GR	ade 1 Standards	SADLIER PR	OGRESS MATHEMATICS, GRADE 1
Wo	rk with addition and subtraction equations.		
7.	Understand the meaning of the equal sign, and determine if equations involving addition and subtraction are true or false. [1-OA7]	Lesson 9	Addition and Subtraction Equations —pp. 74–81
	Example: Which of the following equations are true and which are false? $6 = 6$, $7 = 8 - 1$, $5 + 2 = 2 + 5$, $4 + 1 = 5 + 2$.		
8.	Determine the unknown whole number in an addition or subtraction equation relating three whole numbers. [1-OA8]	Lesson 10	Find Missing Numbers in Equations—pp. 82– 95
	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. 74–81

Number and Operations in Base Ten

GRA	de 1 Standards	SADLIER PRO	OGRESS MATHEMATICS, GRADE 1
Exte	end the counting sequence.		
9.	Count to 120, starting at any number less than 120. In this range, read and write numerals and represent a number of objects with a written numeral. [1-NBT1]	Lesson 11	Count to 120—pp. 96–103
		Lesson 12	Read and Write Numbers—pp. 104-111
Unc	erstand place value.		
10.	Understand that the two digits of a two-digit number represent amounts of tens and ones. Understand the following as special cases: [1-NBT2]	Lesson 6	Relate Counting to Addition and Subtraction—pp. 50–57
	a. 10 can be thought of as a bundle of ten ones — called a "ten." [1-NBT2a]	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. [1-NBT2b]	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). [1-NBT2c]	Lesson 13	Understand Place Value: Tens and Ones—pp. 112–119
11.	Compare two two-digit numbers based on meanings of the tens and ones digits, recording the results of comparisons with the symbols >, =, and <. [1-NBT3]	Lesson 14	Compare Numbers—pp. 120–127

Number and Operations in Base Ten

GRADE 1 STAN	IDARDS	SADLIER PR	ogress Mathematics, Grade 1
•	ralue understanding and properties ns to add and subtract.		
and a or number drawing properti betweer to a writ Underst adds ter	hin 100, including adding a two-digit number ne-digit number, and adding a two-digit rand a multiple of 10, using concrete models or and strategies based on place value, it is of operations, and/or the relationship in addition and subtraction; relate the strategy it method and explain the reasoning used. It is and that in adding two-digit numbers, one in and tens, ones and ones; and sometimes it is any to compose a ten. [1-NBT4]	Lesson 15	Add Two-Digit Numbers—pp. 128–135
less thar	two-digit number, mentally find 10 more or 10 n the number, without having to count; explain oning used. [1-NBT5]	Lesson 16	Find 10 More and 10 Less—pp. 136–143
multiple differen strategie operatio and sub	t multiples of 10 in the range 10–90 from es of 10 in the range 10–90 (positive or zero ces), using concrete models or drawings and es based on place value, properties of ons, and/or the relationship between addition traction; relate the strategy to a written method clain the reasoning used. [1-NBT6]	Lesson 17	Subtract Multiples of 10—pp. 144–161
Measurement and Data			

Measurement and Data

GRA	ade 1 Standards	SADLIER PR	OGRESS MATHEMATICS, GRADE 1
	asure lengths indirectly and by iterating gth units.		
15.	Order three objects by length; compare the lengths of two objects indirectly by using a third object. [1-MD1]	Lesson 18	Compare and Order Lengths—pp. 162–169
16.	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 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. [1-MD2]	Lesson 19	Measure Length in Length Units —pp. 170–177
Tell	and write time.		
17.	Tell and write time in hours and half-hours using analog and digital clocks. [1-MD3]	Lesson 20	Tell Time —pp. 178–185

Measurement and Data

GR	ade 1 Standards	SADLIER PRO	ogress Mathematics, Grade 1
Rep	present and interpret data.		
18.	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. [1-MD4]	Lesson 22	Use Tables—pp. 194–207
Ge	eometry		
GR	ade 1 Standards	SADLIER PRO	ogress Mathematics, Grade 1
Rea	son with shapes and their attributes.		
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. [1-G1]	Lesson 23	Identify Shapes—pp. 208–215
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.") [1-G2]	Lesson 24	Two-Dimensional Shapes—pp. 216-223
		Lesson 25	Three-Dimensional Shapes—pp. 224–231
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. [1-G3]	Lesson 26	Equal Shares—pp. 232–239