

SADLIER

Progress in Mathematics

Aligned to the

Archdiocese of Detroit

First Grade Mathematics Standards

Grade 1

Operations and Algebraic Thinking	2
Number and Operations in Base Ten \ldots	6
Measurement and Data	11
Geometry	13





ARCHDIOCESE OF DETROIT: FIRST GRADE MATHEMATICS STANDARDS

Represent and Solve Problems Involving Addition and Subtraction

1.0A.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 unknown in all positions.

SADLIER PROGRESS IN MATHEMATICS, GRADE 1

1-6 One Fewer, One More—pp. 15-16

Objective(s): To recognize and draw groups with one fewer and one more than a given group.

1-15 Problem Solving Applications: Mixed Strategies (Act It Out, Draw a Picture)—pp. 35–36

2-1 Understanding Addition—pp. 51–52

Objective(s): To explore the concept of addition as the joining of groups of objects with sums of 6 or less.

2-2 Addition Sentences—pp. 53-54

Objective(s): To introduce the plus (+) and equals (=) signs.

To relate the joining of two groups to number sentences with sums or 6 or less.

To complete and write an addition sentence that describes a pictured action for sums of 6 or less.

*2-2A Find Sums—Online

Objective(s): To explore addition as putting together.

To write addition sentences for "putting together" situations.

2-3 Sums Through 6—pp. 55–56

Objective(s): To know the parts of addition.

To add numbers with sums of 6 or less in horizontal and vertical form.

2-6 Sums of 9 and 10—pp. 61–62

Objective(s): To add numbers with sums of 9 and 10 in horizontal and vertical form.

2-7 Sums of 11 and 12—pp. 63–64

Objective(s): To add numbers with sums of 11 and 12 in horizontal and vertical form.

2-9 Problem Solving: Read and Write in Math: Find Hidden

Information—pp. 69-70

Objective(s): To apply math vocabulary.

*2-13A Equivalent Sums—Online

Objective(s): To use strategies to find equivalent sums.

2-14 Addition Practice—pp. 81-82

Objective(s): To use addition strategies to find sums to 12.

2-15 Add Three Numbers—pp. 83–84

Objective(s): To add three addends with sums to 12.

2-16 Addition Strategies with Three Addends—pp. 85-86

Objective(s): To add three numbers, sums through 12, using the doubles and count on strategies.

*2-16A Solve Addition Word Problems—Online

Objective(s): To solve word problems that involve the addition of three whole numbers whose sum is less than or equal to 20.

2-17 Problem Solving Strategy: Write a Number Sentence—pp. 87–88

Objective(s): To solve problems by writing a number sentence.

*2-17A Find the Unknown Number—Online

Objective(s): To use part-whole models to find the unknown number in addition.

2-18 Problem Solving Applications: Mixed Strategies—pp. 89–90

3-1 Understanding Subtraction—pp. 101–102

Objective(s): To explore the concept of subtraction as an action of separation from groups of 6 or less.



ARCHDIOCESE OF DETROIT: FIRST GRADE MATHEMATICS STANDARDS

SADLIER PROGRESS IN MATHEMATICS, GRADE 1

3-2 Subtraction Sentences—pp. 103-104

Objective(s): To recognize the minus (-) and equals (=) signs.

To relate the separating of a group of 6 or less to a number sentence.

To complete and write a subtraction sentence for a total of 6 or less that describes a pictured action.

3-3 Subtract from 6 or Less—pp. 105–106

Objective(s): To identify the difference when subtracting from 6 or less.

To subtract from 6 or less in horizontal and vertical form.

3-4 All or Zero—pp. 107-108

Objective(s): To add and subtract with zero.

*3-4A Find Differences—Online

Objective(s): To use part-whole models to subtract.

3-5 Subtract from 7 and 8—pp. 109-110

Objective(s): To subtract from 7 and 8 in horizontal and vertical form.

To explore subtraction as a whole (7 or 8) separated into parts.

3-6 Subtract from 9 and 10—pp. 111–112

Objective(s): To subtract from 9 and 10 in horizontal and vertical form.

3-7 Subtract from 11 and 12—pp. 113–114

Objective(s): To subtract from 11 and 12 in horizontal and vertical form.

3-10 Related Subtraction Facts—pp. 121–122

Objective(s): To identify related subtraction facts when subtracting from 12 or less.

To subtract from 12 or less in horizontal and vertical form.

*3-11A Think Addition to Subtract—Online

Objective(s): To use related addition facts to subtract.

3-12 Check by Adding—pp. 125–126

Objective(s): To use related addition facts (sums to 12) to check subtraction.

*3-12A Use a Bar Model—Online

Objective(s): To use a bar model to solve addition and subtraction word problems.

3-14 Find Missing Addends—pp. 131–132

Objective(s): To use subtraction facts from 12 or less to find the missing addend.

3-15 Subtract to Compare—pp. 133–134

Objective(s): To use subtraction to compare sets.

3-16 Problem Solving: Read and Write in Math: Use More Than One Step—pp. 135–136

Objective(s): To use the reading comprehension skill of sequencing to help solve two-step math problems.

3-18 Problem Solving Strategy: Choose the Operation—pp. 139–140

Objective(s): To choose the operation to solve problems.

3-19 Problem Solving Applications: Mixed Strategies—pp. 141–142

2-15 Add Three Numbers—pp. 83-84

Objective(s): To add three addends with sums to 12.

2-16 Addition Strategies with Three Addends—pp. 85–86

Objective(s): To add three numbers, sums through 12, using the doubles and count on strategies.

*2-16A Solve Addition Word Problems—Online

Objective(s): To solve word problems that involve the addition of three whole numbers whose sum is less than or equal to 20.

1.0A.A.2 Solve word problems that call for addition of three numbers whose sum is less than or equal to 20.



ARCHDIOCESE OF DETROIT: FIRST GRADE MATHEMATICS STANDARDS

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 to subtract.

SADLIER PROGRESS IN MATHEMATICS, GRADE 1

2-4 Related Addition Facts (commutative)—pp. 57–58

Objective(s): To identify related facts to sums of 6.

To add numbers with sums of 6 or less in horizontal and vertical form.

2-15 Add Three Numbers (associative)—pp. 83-84

Objective(s): To add three addends with sums to 12.

2-16 Addition Strategies with Three Addends (associative)—pp. 85-86

Objective(s): To add three numbers, sums through 12, using the doubles and count on strategies.

3-13 Fact Families (commutative)—pp. 127–128

Objective(s): To identify addition and subtraction facts to 12 in a fact

To complete a fact family, sums to 12.

*6-2A Properties of Operations (commutative)—Online

Objective(s): To apply the properties of multiplication to add.

6-8 More Fact Families (commutative)—pp. 273–274 Objective(s): To complete a fact family, sums to 18.

6-9 Three Addends (associative)—pp. 277–278

Objective(s): To add three addends with sums to 18.

*3-11A Think Addition to Subtract—Online

Objective(s): To use related addition facts to subtract.

3-14 Find Missing Addends—pp. 131-132

Objective(s): To use subtraction facts from 12 or less to find the missing addend.

6-11 Missing Part of a Number Sentence—pp. 281–282

Objective(s): To use addition and subtraction to find the missing part of a number sentence.

Add and Subtract Within 20

problem.

1.OA.B.4

1.OA.C.6

2-10 Number-Line Addition—pp. 71–72

Objective(s): To use a number line to count on to add sums to 12.

2-14 Addition Practice (count on to add)—pp. 81–82

Objective(s): To use addition strategies to find sums to 12.

3-8 Number-Line Subtraction (count back to subtract)—pp. 117-

Objective(s): To use a number line to count back from 12 or less to subtract.

1-8 Count On—pp. 19–20

Objective(s): To use a number line to 12 to count on.

2-4 Related Addition Facts—pp. 57-58

Objective(s): To identify related facts to sums of 6.

To add numbers with sums of 6 or less in horizontal and vertical form.

2-10 Number-Line Addition—pp. 71–72

Objective(s): To use a number line to count on to add sums to 12.

*2-13A Equivalent Sums—Online

Objective(s): To use strategies to find equivalent sums.

3-7 Subtract from 11 and 12—pp. 113–114

Objective(s): To subtract from 11 and 12 in horizontal and vertical form.

1.OA.C.5 Relate counting to addition and subtraction.

Understand subtraction as an unknown-addend

such as counting on, making ten, decomposing a number leading to 10, using the relationship between addition and subtraction, and creating equivalent but

Add and subtract within 20, demonstrating fluency

for addition and subtraction within 10. Use strategies

easier or known sums.



ARCHDIOCESE OF DETROIT: FIRST GRADE MATHEMATICS STANDARDS

SADLIER PROGRESS IN MATHEMATICS, GRADE 1

3-11 Relate Addition and Subtraction—pp. 123-124

Objective(s): To recognize the relationship between addition and subtraction.

*3-11A Think Addition to Subtract—Online

Objective(s): To use related addition facts to subtract.

3-12 Check by Adding—pp. 125–126

Objective(s): To use related addition facts (sums to 12) to check subtraction.

3-13 Fact Families—pp. 127–128

Objective(s): To identify addition and subtraction facts to 12 in a fact family.

To complete a fact family, sums to 12.

*6-3A Make 10 to Add—Online

Objective(s): To decompose one addend to make 10 to find sums.

6-8 More Fact Families-pp. 273-274

Objective(s): To complete a fact family, sums to 18.

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.

2-2 Addition Sentences (equal sign)—pp. 53-54

Objective(s): To introduce the plus (+) and equals (=) signs

To relate the joining of two groups to number sentences with sums or 6 or less

To complete and write an addition sentence that describes a pictured action for sums of 6 or less.

2-10 Number-Line Addition—pp. 71-72

Objective(s): To use a number line to count on to add sums to 12.

2-14 Addition Practice (count on to add)—pp. 81–82

Objective(s): To use addition strategies to find sums to 12.

3-2 Subtraction Sentences (equal sign)—pp. 103–104

Objective(s): To recognize the minus (-) and equals (=) signs

To relate the separating of a group of 6 or less to a number

sentence
To complete and write a subtraction sentence for a total of

To complete and write a subtraction sentence for a total of 6 or less that describes a pictured action.

3-8 Number-Line Subtraction—pp. 117–118

Objective(s): To use a number line to count back from 12 or less to subtract.

*6-10A True and False Sentences—Online

Objective(s): To determine if an equation involving addition or subtraction is true or false

To understand the meaning of the plus sign.

10-5 Add Ones or Tens—pp. 473–474

Objective(s): To use mental math to count on 1s and 10s.

2-8 Other Names for Numbers—pp. 67–68

Objective(s): To find other names for numbers, sums to 12.

*2-17A Find the Unknown Number—Online

Objective(s): To use part-whole models to find the unknown number in addition.

3-14 Find Missing Addends—pp. 131-132

Objective(s): To use subtraction facts from 12 or less to find the missing addend.

6-11 Missing Part of a Number Sentence—pp. 281–282

Objective(s): To use addition and subtraction to find the missing part of a number sentence.

^{1.}OA.D.8 Determine the unknown whole number in an addition or subtraction equation relating three whole numbers.



ARCHDIOCESE OF DETROIT: FIRST GRADE MATHEMATICS STANDARDS

Extend the Counting Sequence

1.NBT.A.1 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.

SADLIER PROGRESS IN MATHEMATICS, GRADE 1

1-7 Order 0 Through 12—pp. 17–18

Objective(s): To order numbers 0-12.

1-8 Count On—pp. 19–20

Objective(s): To use a number line to 12 to count on.

5-2 Tens Through One Hundred—pp. 197–198

Objective(s): To read and write numbers and number words for decade names ten to one hundred.

To count by 10s to 100.

5-3 Numbers 11 Through 19—pp. 199–200

Objective(s): To write numbers 11-19 using numbers and number words.

To express and represent numbers 11-19 as composed of 1 ten and ones.

5-4 Numbers 20 Through 39—pp. 201–202

Objective(s): To write numbers 20-39 using numbers and number words.

To express and represent numbers 20-39 as composed of tens and ones.

5-5 Numbers 40 Through 59—pp. 203-204

Objective(s): To write numbers 40-59 using numbers and number words.

To express and represent numbers 40-59 as composed of tens and ones.

5-6 Numbers 60 Through 89—pp. 205-206

Objective(s): To write numbers 60-89 using numbers and number words.

To express and represent numbers 60-89 as composed of tens and ones.

5-7 Numbers 90 Through 100—pp. 207–208

Objective(s): To write numbers 90-100 using numbers and number words.

To express and represent numbers 90-100 as being composed of tens and ones.

*5-7A Numbers to 120—Online

Objective(s): To read and write numbers less than 120; to count to 120, starting at any number.

To represent a number of objects with a numeral.

5-11 One Less, One More—pp. 217-218

Objective(s): To identify and write numbers one less and one more than a given 2-digit number.

5-12 Identify Before, Between, After—pp. 219–220

Objective(s): To identify and write numbers just before, between, and just after given 2-digit numbers.

5-13 Compare Numbers—pp. 221–222

Objective(s): To compare 2-digit numbers using the symbols <, =, and >.

5-14 Order Numbers—pp. 223-224

Objective(s): To order numbers to 100.

5-15 Hundred-Chart Patterns—pp. 225–226

Objective(s): To identify and describe number patterns in numbers 1-100.

To use a hundred chart to order numbers to 100.

Ch. 5 Enrichment: Counting Beyond 100—p. 248

8-1 Nickels and Pennies—pp. 353-354

Objective(s): To recognize the value of a penny (1 cent, 1¢, 1 penny) and a nickel (5 cents, 5¢, 5 pennies).

To count on with nickels and pennies to find the value of a group of coins.



ARCHDIOCESE OF DETROIT: FIRST GRADE MATHEMATICS STANDARDS

SADLIER PROGRESS IN MATHEMATICS, GRADE 1

8-2 Dimes and Pennies—pp. 355-356

Objective(s): To recognize the value of a dime (10 cents, 10c, 10 pennies).

To count on with dimes and pennies to find the value of a group of coins.

8-3 Quarters and Pennies—pp. 357–358

Objective(s): To recognize the value of a quarter (25 cents, 25¢, 25 pennies).

To count on with quarters and pennies to find the value of a group of coins.

1.NBT.A.2 Count backwards by 1's starting at any number between 0 and 120.

1-9 Count Back—pp. 21–22

Objective(s): To use a number line to 12 to count back.

*11-4A Count Back by Tens or Ones to Subtract—Online

Objective(s): To count back by tens from a 2-digit number to find a number that is a given amount less than the original number.

To count back by ones from a 2-digit number to find a number that is a given amount less than the original number.

1.NBT.A.3 Count to 120 by 2's, 5's and 10's fluently.

5-2 Tens Through One Hundred—pp. 197-198

Objective(s): To read and write numbers and number words for decade names ten to one hundred.

To count by 10s to 100.

5-19 Count by 5s—pp. 235–236

Objective(s): To skip count by 5s from 0 to 100, using a hundred chart and number line as models.

To discover skip counting patterns on a hundred chart.

5-20 Count by 2s-pp. 237-238

Objective(s): To skip count by 2s from 0 to 100 using a hundred chart and other models.

To discover skip counting patterns on a hundred chart.

Ch. 10 Connection: Math and Technology (skip count by 10s)—p. 494

$Understand\ Place\ Value$

1.NBT.B.4 Understand that the two digits of a two-digit number represent amounts of tens and ones

1.NBT.B.5a 10 can be thought of as a bundle of ten ones-called a "ten."

1-4 Numbers 10 Through 12—pp. 9–10

Objective(s): To recognize groups of 10 through 12.

To identify and write the numbers and number words for 10 through 12.

5-1 Tens and Ones—pp. 195–196

Objective(s): To identify ten as a set of 10 ones

To represent and recognize sets of ones as groups of tens and ones.

5-9 Place Value of Digits—pp. 213-214

 $\label{eq:continuous} Objective (s): To \ determine \ the \ value \ of \ a \ designated \ digit \ in \ a \ number.$

8-2 Dimes and Pennies—pp. 355–356

Objective(s): To recognize the value of a dime (10 cents, 10¢, 10 pennies).

To count on with dimes and pennies to find the value of a group of coins.



ARCHDIOCESE OF DETROIT: FIRST GRADE MATHEMATICS STANDARDS

SADLIER PROGRESS IN MATHEMATICS, GRADE 1

8-5 Count Mixed Coins—pp. 361–362

Objective(s): To find the value of a group of coins consisting of a quarter, dimes, nickels, and pennies.

To solve real-world problems involving money.

8-8 One Dollar—pp. 369–370

Objective(s): To identify a dollar bill and its value: 100 cents.

To identify the coins equivalent to a dollar.

To use coins to show different ways to make a dollar.

10-1 Add Tens and Dimes—pp. 465–466

Objective(s): To add multiples of 10, including dimes, to sums of 90.

10-2 Add Ones and Tens Using Models—pp. 467-468

Objective(s): To use models to add ones and tens with no regrouping.

10-4 Add Money—pp. 471–472

Objective(s): To add 2-digit money amounts with no regrouping.

10-6 Nearest Ten—pp. 475–476

Objective(s): To explore rounding to the nearest ten.

11-4 Subtract Money—pp. 509–510

Objective(s): To subtract 2-digit money amounts without regrouping.

11-8 Regroup Tens as Ones Using Models—pp. 519-520

Objective(s): To regroup 1 ten as 10 ones.

11-9 Regroup Tens as Ones Using a Chart—pp. 521-522

Objective(s): To subtract tens and ones with regrouping.

10-11-10 Regroup Dimes as Pennies—pp. 523-524

Objective(s): To add money amounts, regrouping 1 dime as 10 pennies.

1.NBT.B.5b The numbers from 11-19 are composed of a ten and one, two, three, four, five, six, seven, eight or nine ones

1-4 Numbers 10 Through 12—pp. 9-10

Objective(s): To recognize groups of 10 through 12.

To identify and write the numbers and number words for 10 through 12.

5-1 Tens and Ones—pp. 195–196

Objective(s): To identify ten as a set of 10 ones.

To represent and recognize sets of ones as groups of tens and ones.

5-3 Numbers 11 Through 19—pp. 199–200

Objective(s): To write numbers 11-19 using numbers and number words.

To express and represent numbers 11-19 as composed of 1 ten and ones.

1.NBT.B.5c 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).

5-1 Tens and Ones—pp. 195–196

Objective(s): To identify ten as a set of 10 ones.

To represent and recognize sets of ones as groups of tens and ones.

5-2 Tens Through One Hundred—pp. 197–198

Objective(s): To read and write numbers and number words for decade names ten to one hundred.

To count by 10s to 100.

10-1 Add Tens and Dimes—pp. 465-466

Objective(s): To add multiples of 10, including dimes, to sums of 90.

11-1 Subtract Tens and Dimes—pp. 503-504

Objective(s): To subtract multiples of 10, including dimes, from 90 or less.

1.NBT.B.6 Compare two two-digit numbers based on meanings of the tens and ones digit, recording the results of comparisons with the symbols <> and =.

5-13 Compare Numbers—pp. 221–222

Objective(s): To compare 2-digit numbers using the symbols <, =, and >.

5-14 Order Numbers—pp. 223–224

Objective(s): To order numbers to 100.



ARCHDIOCESE OF DETROIT: FIRST GRADE MATHEMATICS STANDARDS

Use Place Value Understanding and Properties of Operations to Add and Subtract

1.NBT.C.7

Add within 120, including adding a two-digit and a one-digit number, and adding a two-digit 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.

SADLIER PROGRESS IN MATHEMATICS, GRADE 1

10-1 Add Tens and Dimes—pp. 465–466

Objective(s): To add multiples of 10, including dimes, to sums of 90.

10-2 Add Ones and Tens Using Models-pp. 467-468

Objective(s): To use models to add ones and tens with no regrouping.

*10-2A Add Using Drawings—Online

Objective(s): To add two 2-digit numbers using drawings.

10-3 Add Ones and Tens Without Models—pp. 469–470

Objective(s): To add ones and tens with no regrouping.

To use the commutative property of addition to check the

10-4 Add Money—pp. 471–472

Objective(s): To add 2-digit money amounts with no regrouping.

*10-4A Count On by Tens or Ones to Add—Online

Objective(s): To count on by tens from a 2-digit number to find a number that is a given amount more than the original number.

To count on by ones from a 2-digit number to find a number that is a given amount more than the original number.

10-5 Add Ones or Tens—pp. 473–474

Objective(s): To use mental math to count on 1s and 10s.

*10-5A Use Strategies to Add—Online

Objective(s): To add a multiple of 10 and a number less than ten to a 2-digit number.

*10-5B Add 2-digit Numbers—Online

Objective(s): To use decomposition to add a 2-digit number to a 2-digit

10-8 Problem Solving: Read and Write in Math: Use More Than One Step—pp. 479–480

Objective(s): To solve problems with more than one step.

10-9 Regroup Ones as Tens Using Models—pp. 483–484

Objective(s): To regroup 10 ones as 1 ten.

10-10 Regroup Ones as Tens Using a Chart—pp. 485–486

Objective(s): To add ones and tens, regrouping ones.

*10-10A Bar Models and Addition Problems—Online

Objective(s): To use a bar model to solve addition problems.

10-11 Regroup Money—pp. 487–488

Objective(s): To add money amounts, regrouping 10 pennies as 1 dime.

10-13 Problem Solving Applications: Mixed Strategies—pp. 491–492

10-5 Add Ones or Tens—pp. 473–474

Objective(s): To use mental math to count on 1s and 10s.

*11-1A Mental Math: Ten More or Ten Less—Online

Objective(s): To find 10 more or 10 less without having to count and explaining the reasoning used.

11-3 Subtract Ones and Tens Without Models—pp. 507-508

Objective(s): To subtract ones and tens without regrouping.

To use addition to check subtraction.

11-1 Subtract Tens and Dimes—pp. 503–504

Objective(s): To subtract multiples of 10, including dimes, from 90 or less.

1.NBT.C.9 Subtract multiples of 10 in the range 10-90 from multiples of 10 in the range 10–90.

^{1.}NBT.C.8 Given a two-digit number, mentally find 10 more or 10 less than the number, without having to count.



ARCHDIOCESE OF DETROIT: FIRST GRADE MATHEMATICS STANDARDS

SADLIER PROGRESS IN MATHEMATICS, GRADE 1

*11-1B Subtract Multiples of 10—Online

Objective(s): To subtract multiples of ten using the relationship between addition and subtraction.

*11-4A Count Back by Tens or Ones to Subtract—Online

Objective(s): To count back by tens from a 2-digit number to find a number that is a given amount less than the original number.

To count back by ones from a 2-digit number to find a number that is a given amount less than the original number.

11-5 Subtract Ones or Tens—pp. 511–512

Objective(s): To use mental math to subtract 2-digit and 1-digit numbers with no regrouping.

*11-9A Bar Diagrams and Subtraction Problems—Online

Objective(s): To use a bar model to solve subtraction problems.

nother **1-8 Count On**—pp. 19–20

Objective(s): To use a number line to 12 to count on.

1-9 Count Back—pp. 21–22

Objective(s): To use a number line to 12 to count back.

2-10 Number-Line Addition—pp. 71–72

Objective(s): To use a number line to count on to add sums to 12.

3-8 Number-Line Subtraction—pp. 117-118

Objective(s): To use a number line to count back from 12 or less to subtract.

1.NBT.C.10 Understand that a number to the right of another number on the number line is bigger and that the number to the left is smaller.



Measurement and Data

ARCHDIOCESE OF DETROIT: FIRST GRADE MATHEMATICS STANDARDS

Measure Lengths Indirectly and by Iterating Length Units.

1.MD.A.1 Order three objects by length; compare the length of two objects indirectly by using a third object.

1.MD.A.2 Express the length/width of an object as a whole number of length/width units, by laying multiple copies of a shorter object 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.

Tell and Write Time

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

1.MD.B.4 Tell and write time of day using am and pm.

1.MD.B.5 Introduce elapsed time in hours.

Represent and Interpret Data

1.MD.C.6 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.

SADLIER PROGRESS IN MATHEMATICS, GRADE 1

9-4 Compare Lengths—pp. 413–414

Objective(s): To compare lengths using the phrases shortest to longest and longest to shortest.

*9-4A Use Indirect Comparison—Online

Objective(s): To compare lengths of two nonadjacent pictures by indirect comparison to a third object.

9-1 Length and Height: Nonstandard Units—pp. 407–408

Objective(s): To measure length and height in nonstandard units.

*9-1A Length of a Path—Online

Objective(s): To use iterations of nonstandard units to measure the distance along a 2-segment path.

9-2 Estimate with Nonstandard Units—pp. 409-410

Objective(s): To estimate and measure length and height in nonstandard units.

*9-4B Use a Ruler—Online

Objective(s): To use a ruler that displays iterated nonstandard units to measure length.

To draw pictures of a given length.

8-9 Hour-pp. 373-374

Objective(s): To tell time to the hour.

To write time in standard notation.

8-10 Half Hour—pp. 375-376

Objective(s): To tell time to the half hour.

To write time in standard notation.

8-11 Time Patterns—pp. 377–378

Objective(s): To show time patterns.

*See Grade 2: Lesson 7-13A A.M. and P.M.—Online

8-12 Elapsed Time—pp. 379–380

Objective(s): To determine the length of elapsed time to the hour and half hour.

To draw the minute and hour hands to show a given time.

4-2 Tally Charts—pp. 159–160

Objective(s): To record tallies to match the number of objects in a group.

To make and interpret tally charts.

4-3 Real Graphs—pp. 161-162

Objective(s): To use data from a tally chart and organize it into a real graph.

4-4 Picture Graphs—pp. 163–164

Objective(s): To make and interpret picture graphs. To add and subtract to interpret data from picture graphs.

4-5 Pictographs—pp. 165–166

Objective(s): To make and interpret pictographs.

To add and subtract to interpret data from pictographs.



Measurement and Data

ARCHDIOCESE OF DETROIT: FIRST GRADE MATHEMATICS STANDARDS

SADLIER PROGRESS IN MATHEMATICS, GRADE 1

4-6 Bar Graphs—pp. 167-168

Objective(s): To make and interpret bar graphs.

To add and subtract to interpret data from bar graphs.

4-7 Surveys—pp. 171–172

Objective(s): To conduct a survey; to organize and interpret the results of a survey.

*4-7A Data and Questions—Online

Objective(s): To ask questions about the total number of data points.

4-12 Problem Solving Strategy: Use a Graph—pp. 181–182

Objective(s): To solve problems by using information from a graph.

7-8 Graphing Attributes—pp. 313-314

Objective(s): To make and read horizontal and vertical bar graphs.

To identify attributes of plane and solid figures.

4-7 Surveys—pp. 171–172

Objective(s): To conduct a survey; to organize and interpret the results of a survey.

Work with Money

1.MD.C.7

1.MD.D.9

1.MD.D.8 Tell the cent equivalent to the penny, nickel, dime, and quarter.

Collect and organize data to create and use a graph.

8-1 Nickels and Pennies-pp. 353-354

Objective(s): To recognize the value of a penny (1 cent, 1¢, 1 penny) and a nickel (5 cents, 5¢, 5 pennies).

To count on with nickels and pennies to find the value of a group of coins.

8-2 Dimes and Pennies—pp. 355–356

Objective(s): To recognize the value of a dime (10 cents, 10¢, 10 pennies).

To count on with dimes and pennies to find the value of a group of coins.

8-3 Quarters and Pennies—pp. 357–358

Objective(s): To recognize the value of a quarter (25 cents, 25¢, 25 pennies).

To count on with quarters and pennies to find the value of a group of coins.

8-0

8-6 Equal Amounts—pp. 365–366
Objective(s): To identify two groups of coins that show the same amount.

To show equal amounts.

1.MD.D.10 Understand that some money that we receive should be saved, and some should be given to those in need.

Match one coin of one denomination to an

equivalent set of coin of another denomination.

9-20 Problem Solving Applications: Mixed Strategies (saving)—pp. 449-450



Geometry

1.G.A.3

ARCHDIOCESE OF DETROIT: FIRST GRADE MATHEMATICS STANDARDS

Reason with Shapes and their Attributes

1.G.A.1 Distinguish between defining attributes versus non-defining attributes; build and draw shapes to possess defining attributes.

1.G.A.2 Compose two-dimensional shapes or three-dimensional shapes to create a composite shape, and compose new shapes from the composite shape.

Partition circles and rectangles into two and four equal shares, describing 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 PROGRESS IN MATHEMATICS, GRADE 1

7-1 Open and Closed Figures—pp. 297–298

Objective(s): To identify open and closed figures.

7-2 Sides and Corners—pp. 299–300

Objective(s): To identify and count sides and corners (vertices) of plane figures.

To draw a plane figure with a given number of sides and corners.

*7-2A Reason with Shapes—Online

Objective(s): To distinguish between defining attributes of plane figures. To build shapes with defining attributes.

7-3 Sorting Plane Figures—pp. 301–302

Objective(s): To recognize and sort plane figures by shape.

To identify trapezoids and other 4-sided figures.

To model and find representations of plane figures in the environment.

7-5 Solid Figures—pp. 307–308

Objective(s): To identify and sort solid figures according to their shapes.

To identify real-world objects shaped like solid figures.

7-6 Attributes of Solid Figures—pp. 309–310

Objective(s): To identify and classify solid figures according to their properties.

*7-3A Ways to Make Plane Figures—Online

Objective(s): To make and take apart plane figures, including rectangles, squares, and circles.

To visualize and name plane figures that are composed of other plane figures.

To compose figures using half circles and quarter circles.

7-4 Ways to Make Figures—pp. 303–304

Objective(s): To make and take apart plane figures.

To visualize and name plane figures that are composed of other plane figures.

*7-5A Ways to Make Solid Figures—Online

Objective(s): To compose composite shapes from cubes, prisms, cones, and cylinders.

7-16 Symmetry (rectangle in two equal shares, circle in four equal shares)—pp. 333–334

Objective(s): To identify shapes that have symmetry and identify their line(s) of symmetry.

To verify a line of symmetry by folding models.

12-1 Equal Parts—pp. 551–552

Objective(s): To identify equal parts of a whole.

12-2 One Half, 1/2—pp. 553–554

Objective(s): To identify one half of a whole.

12-4 One Fourth, 1/4—pp. 557–558

Objective(s): To identify one fourth of a whole.

12-10 Problem Solving Strategy: Make a Model/Draw a Picture—pp. 571–572

Objective(s): To make a model or draw a picture to solve a problem.



Geometry

ARCHDIOCESE OF DETROIT: FIRST GRADE MATHEMATICS STANDARDS

1.G.A.4 Describe relative positions of objects on a plane and in space, using words such as above, below, behind, in front of.

SADLIER PROGRESS IN MATHEMATICS, GRADE 1

1-10 Before, Between, After—pp. 23-24

Objective(s): To identify and write numbers to 12 that are just before, between, and just after a given number.

1-13 Ordinals: From Top or Bottom (in front of, behind)—pp. 31–32

Objective(s): To identify ordinal positions 1st through 10th from top to bottom and bottom to top.

To read and write ordinal numbers and ordinal number words first through tenth.

Ch. 3 Connection: Math and Health (above)—p. 144

5-5 Numbers 40 Through 59 (below)—pp. 203–204

Objective(s): To write numbers 40-59 using numbers and number words.

To express and represent numbers 40-59 as composed of tens and ones.

7-16 Symmetry—pp. 333-334

Objective(s): To identify shapes that have symmetry and identify their line(s) of symmetry.

To verify a line of symmetry by folding models.