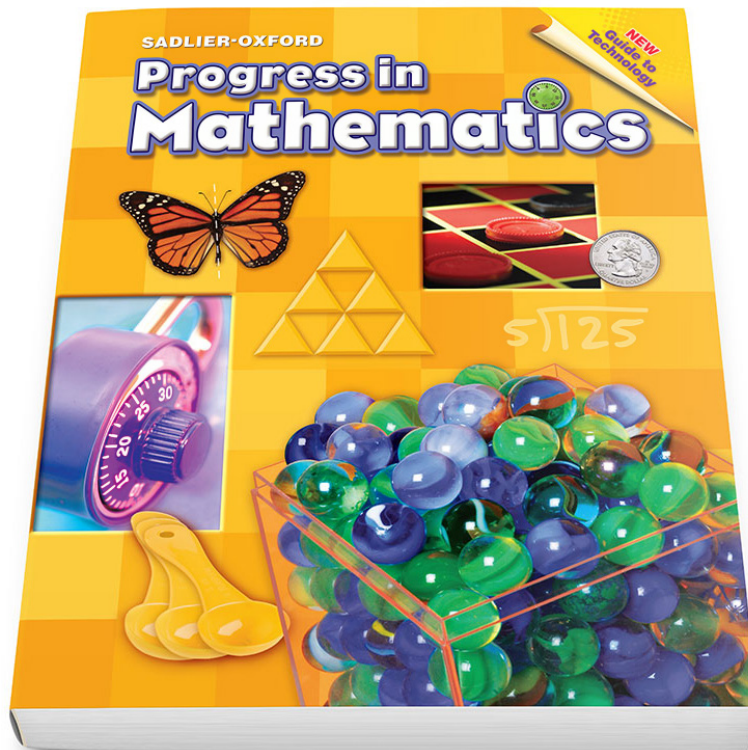


# Progress in Mathematics

Correlation to the North Dakota Mathematics Standards JULY 2023

Grade 4



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## Numbers and Operations (NO)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 4

### Counting and Cardinality (CC)

**4.NO.CC.1** Read numbers to the millions place, including word, standard, and expanded form. Write numbers to the millions place, including standard and expanded form.

**Clarification** Students are not expected to write word form to the millions. Spelling is not assessed.

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**CHAPTER 1 PLACE VALUE**

- Lesson 1-1 Thousands—pp. 36–37
- Lesson 1-2 What is One Million?—pp. 38–39
- Lesson 1-3 Millions—pp. 40–41
- Lesson 1-4 Place Value—pp. 42–43

WORKBOOK ADDITIONAL PRACTICE

- Lesson 1-1 Thousands—p. 1
- Lesson 1-2 What is One Million?—p. 2
- Lesson 1-3 Millions—p. 3
- Lesson 1-4 Place Value—p. 4

TEACHER'S EDITION/TEACHER'S EDITION eBOOK\*

- Chapter 1 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 35A–35I

DIGITAL RESOURCES\*

Chapter 1 Reteach Lessons & Practice/Reteach Teacher Support

- Understand Place Value of Whole Numbers
- Read, Write, and Compare Whole Numbers

Chapter 1 Reteach Videos

- Understanding Place Value and Comparing Whole Numbers

### Base Ten (BT)

**4.NO.NBT.1** Understand that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right.

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**CHAPTER 1 PLACE VALUE**

- Lesson 1-2 What is One Million?—pp. 38–39
- Lesson 1-4 Place Value—pp. 42–43

WORKBOOK ADDITIONAL PRACTICE

- Lesson 1-2 What is One Million?—p. 2
- Lesson 1-4 Place Value—p. 4

TEACHER'S EDITION/TEACHER'S EDITION eBOOK\*

- Chapter 1 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 35A–35I

DIGITAL RESOURCES\*

Chapter 1 Reteach Lessons & Practice/Reteach Teacher Support

- Understand Place Value of Whole Numbers

Chapter 1 Reteach Videos

- Understanding Place Value and Comparing Whole Numbers

\*Digital resources available at SadlierConnect.com

Online resources include Professional Development, Assessments, Enrichment Activities, Blackline Masters, Problem of the Day, Games & Study Aids, Take-Home Activities, and Teacher Resources



## Numbers and Operations (NO)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 4

### Base Ten (BT)

**4.NO.NBT.2** Compare two numbers to the millions place and decimals to the hundredths place, using symbols  $>$ ,  $<$ , and  $=$ . Justify comparisons based on the value of the digits.

**Clarification** Students compare two numbers to the millions place and decimals to the hundredth place. In a progression, students may practice reading and writing numbers and decimals prior to comparing. Ordering numbers may be included for number comparisons.

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**SKILLS UPDATE: REVIEW OF GRADE 3 SKILLS**

- Compare Whole Numbers—p. 2

**CHAPTER 1 PLACE VALUE**

- Lesson 1-6 Compare and Order Whole Numbers—pp. 46–47

WORKBOOK ADDITIONAL PRACTICE

- Lesson 1-6 Compare and Order Whole Numbers—p. 6

TEACHER'S EDITION/TEACHER'S EDITION eBOOK\*

- Chapter 1 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 35A–35I

DIGITAL RESOURCES\*

Chapter 1 Reteach Lessons & Practice/Reteach Teacher Support

- Read, Write, and Compare Whole Numbers

Chapter 1 Reteach Videos

- Understanding Place Value and Comparing Whole Numbers

OTHER DIGITAL RESOURCES\*

**SKILLS UPDATE**

Instruction/Student Practice

- Compare Whole Numbers

**4.NO.NBT.3** Apply place value understanding to round multi-digit whole numbers to any place.

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**CHAPTER 1 PLACE VALUE**

- Lesson 1-10 Rounding—pp. 54–55

WORKBOOK ADDITIONAL PRACTICE

- Lesson 1-10 Rounding—p. 10

TEACHER'S EDITION/TEACHER'S EDITION eBOOK\*

- Chapter 1 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 35A–35I

DIGITAL RESOURCES\*

Chapter 1 Reteach Lessons & Practice/Reteach Teacher Support

- Apply Place Value to Round Whole Numbers

Chapter 1 Reteach Videos

- Applying Place Value to Round Whole Numbers

\*Digital resources available at SadlierConnect.com

Online resources include Professional Development, Assessments, Enrichment Activities, Blackline Masters, Problem of the Day, Games & Study Aids, Take-Home Activities, and Teacher Resources



## Numbers and Operations (NO)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 4

### Base Ten (BT)

**4.NO.NBT.4** Add and subtract multi-digit whole numbers to the one million place using strategies, including the algorithm.

**Clarification** Apply a flexible understanding of both vertical and horizontal orientation.

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**CHAPTER 2 ADDITION AND SUBTRACTION CONCEPTS**

- Lesson 2-1 Addition Properties—pp. 68–69
- Lesson 2-2 Addition Strategies—pp. 70–71
- Lesson 2-3 Subtraction Concepts—pp. 72–73
- Lesson 2-4 Expressions and Variables—pp. 74–75
- Lesson 2-5 Addition and Subtraction Sentences—pp. 76–77
- Lesson 2-6 Mental Math—pp. 78–79
- Lesson 2-7 Estimate Sums and Differences—pp. 80–81
- Lesson 2-8 Add and Subtract Money—pp. 82–83
- Lesson 2-9 Check Addition and Subtraction—pp. 84–85

**WORKBOOK ADDITIONAL PRACTICE**

- Lesson 2-1 Addition Properties—p. 14
- Lesson 2-2 Addition Strategies—p. 15
- Lesson 2-3 Subtraction Concepts—p. 16
- Lesson 2-4 Expressions and Variables—p. 17
- Lesson 2-5 Addition and Subtraction Sentences—p. 18
- Lesson 2-6 Mental Math—p. 19
- Lesson 2-7 Estimate Sums and Differences—p. 20
- Lesson 2-8 Add and Subtract Money—p. 21
- Lesson 2-9 Check Addition and Subtraction—p. 22

**TEACHER'S EDITION/TEACHER'S EDITION eBOOK\***

- Chapter 2 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 67A–67I

**DIGITAL RESOURCES\***

- Chapter 2 Reteach Lessons & Practice/Reteach Teacher Support
  - Add and Subtract Fluently with Whole Numbers
- Chapter 2 Reteach Videos
  - Add and Subtract Fluently

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**CHAPTER 3 ADDITION AND SUBTRACTION**

- Lesson 3-1 Front-End Estimation—pp. 96–97
- Lesson 3-2 Add with Regrouping—pp. 98–99
- Lesson 3-3 Four-Digit Addition—pp. 100–101
- Lesson 3-4 Add Larger Numbers—pp. 102–103
- Lesson 3-5 Three or More Addends—pp. 104–105
- Lesson 3-6 Subtract with Regrouping—pp. 106–107
- Lesson 3-7 Subtraction: Regroup Twice—pp. 108–109
- Lesson 3-8 Subtract Larger Numbers—pp. 110–111
- Lesson 3-9 Zeros in Subtraction—pp. 112–113
- Lesson 3-10 Addition and Subtraction Practice—pp. 114–115

**WORKBOOK ADDITIONAL PRACTICE**

- Lesson 3-1 Front-End Estimation—p. 25
- Lesson 3-2 Add with Regrouping—p. 26
- Lesson 3-3 Four-Digit Addition—p. 27
- Lesson 3-4 Add Larger Numbers—p. 28
- Lesson 3-5 Three or More Addends—p. 29
- Lesson 3-6 Subtract with Regrouping—p. 30
- Lesson 3-7 Subtraction: Regroup Twice—p. 31
- Lesson 3-8 Subtract Larger Numbers—p. 32
- Lesson 3-9 Zeros in Subtraction—p. 33
- Lesson 3-10 Addition and Subtraction Practice—p. 34

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## Numbers and Operations (NO)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 4

### Base Ten (BT)

*continued*

**4.NO.NBT.4** Add and subtract multi-digit whole numbers to the one million place using strategies, including the algorithm.

**Clarification** Apply a flexible understanding of both vertical and horizontal orientation.

*continued*

**TEACHER'S EDITION/TEACHER'S EDITION eBOOK\***

- Chapter 3 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 95A-95I

**DIGITAL RESOURCES\***

- Chapter 3 Reteach Lessons & Practice/Reteach Teacher Support
  - Add and Subtract Fluently with Whole Numbers
- Chapter 3 Reteach Videos
  - Add and Subtract Fluently

**4.NO.NBT.5** Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers. Show and justify the calculation using equations, rectangular arrays, and models.

**Clarification** Apply a flexible understanding of both vertical and horizontal orientation.

**STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\***

**SKILLS UPDATE: REVIEW OF GRADE 3 SKILLS**

- Meaning of Multiplication—p. 7
- Multiplication Facts—p. 8
- Multiply with 10, 11, and 12—p. 9

**CHAPTER 4 MULTIPLY BY ONE AND TWO DIGITS**

- Lesson 4-1 Multiplication Properties—pp. 126-127
- Lesson 4-2 Multiplication Models—pp. 128-129
- Lesson 4-3 Special Factors—pp. 130-131
- Lesson 4-4 Multiply by One-Digit Numbers—pp. 132-133
- Lesson 4-5 Products: Front-End Estimation—pp. 134-135
- Lesson 4-6 Multiply with Regrouping—pp. 136-137
- Lesson 4-7 Multiply Three-Digit Numbers—pp. 138-139
- Lesson 4-8 Multiply Money—pp. 140-141
- Lesson 4-9 Multiply Four-Digit Numbers—pp. 142-143
- Lesson 4-10 Patterns in Multiplication—pp. 144-145
- Lesson 4-11 Products: Rounding to Estimate—pp. 146-147
- Lesson 4-12 Multiply by Two-Digit Numbers—pp. 148-149
- Lesson 4-13 More Multiplying by Two-Digit Numbers—pp. 150-151
- Lesson 4-14 Multiply with Three-Digit Numbers—pp. 152-153

**WORKBOOK INSTRUCTION & PRACTICE**

- Lesson 4-1A Number Patterns—pp. 175-176
- Lesson 4-1B Use Multiplication to Compare Numbers—pp. 177-178
- Lesson 4-5A Multiply with Models—pp. 179-180
- Lesson 4-6A Use Mental Math to Multiply—pp. 181-182
- Lesson 4-11A Multiply with Area Models—pp. 183-184
- Lesson 4-11B Break Apart Numbers to Multiply—pp. 185-186

**WORKBOOK ADDITIONAL PRACTICE**

- Lesson 4-1 Multiplication Properties—p. 37
- Lesson 4-1A Number Patterns—p. 236
- Lesson 4-1B Use Multiplication to Compare Numbers—p. 237
- Lesson 4-2 Multiplication Models—p. 38
- Lesson 4-3 Special Factors—p. 39
- Lesson 4-4 Multiply by One-Digit Numbers—p. 40
- Lesson 4-5 Products: Front-End Estimation—p. 41
- Lesson 4-5A Multiply with Models—p. 238
- Lesson 4-6 Multiply with Regrouping—p. 42
- Lesson 4-6A Use Mental Math to Multiply—p. 239
- Lesson 4-7 Multiply Three-Digit Numbers—p. 43
- Lesson 4-8 Multiply Money—p. 44

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## Numbers and Operations (NO)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 4

### Base Ten (BT)

*continued*

**4.NO.NBT.5** Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers. Show and justify the calculation using equations, rectangular arrays, and models.

**Clarification** Apply a flexible understanding of both vertical and horizontal orientation.

*continued*

- Lesson 4-9 Multiply Four-Digit Numbers—p. 45
- Lesson 4-10 Patterns in Multiplication—p. 46
- Lesson 4-11 Products: Rounding to Estimate—p. 47
- Lesson 4-11A Multiply with Area Models—p. 240
- Lesson 4-11B Break Apart Numbers to Multiply—p. 241
- Lesson 4-12 Multiply by Two-Digit Numbers—p. 48
- Lesson 4-13 More Multiplying by Two-Digit Numbers—p. 49
- Lesson 4-14 Multiply with Three-Digit Numbers—p. 50

**TEACHER'S EDITION/TEACHER'S EDITION eBOOK\***

- Chapter 4 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 125A-125I

**DIGITAL RESOURCES\***

Chapter 4 Reteach Lessons & Practice/Reteach Teacher Support

- Interpret Multiplication Equations as Comparisons
- Problem Solving: Use Multiplication and Division to Make Comparisons
- Multiply Whole Numbers: Use Place Value

Chapter 4 Reteach Videos

- Multiplying Whole Numbers Using Place Value

**OTHER DIGITAL RESOURCES\***

**SKILLS UPDATE**

Instruction/Student Practice

- Meaning of Multiplication
- Multiplication Facts
- Multiply with 10, 11, and 12

**4.NO.NBT.6** Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors using place value strategies. Show and justify the calculation using equations, rectangular arrays, and models.

*continued*

**STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\***

**SKILLS UPDATE: REVIEW OF GRADE 3 SKILLS**

- Understand Division—p. 10
- Division Facts—p. 11
- Relate Multiplication and Division—p. 12

**CHAPTER 5 DIVIDE BY ONE DIGIT**

- Lesson 5-1 Division Rules—pp. 164-165
- Lesson 5-2 Relate Multiplication and Division—pp. 166-167
- Lesson 5-3 Missing Numbers—pp. 168-169
- Lesson 5-4 Number Patterns—pp. 170-171
- Lesson 5-5 Estimate in Division—pp. 172-173
- Lesson 5-6 One-Digit Quotients—pp. 174-175
- Lesson 5-7 Divisibility—pp. 176-177
- Lesson 5-8 Two-Digit Quotients—pp. 178-179
- Lesson 5-9 More Two-Digit Quotients—pp. 180-181
- Lesson 5-10 Three-Digit Quotients—pp. 182-183
- Lesson 5-11 More Quotients—pp. 184-185
- Lesson 5-12 Zeros in the Quotient—pp. 186-187
- Lesson 5-13 Larger Numbers in Division—pp. 188-189

**WORKBOOK INSTRUCTION & PRACTICE**

- Lesson 5-4A Use Bar Diagrams—pp. 187-188
- Lesson 5-5A Use Models to Divide—pp. 189-190

*continued*

\*Digital resources available at SadlierConnect.com

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## Numbers and Operations (NO)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 4

### Base Ten (BT)

*continued*

**4.NO.NBT.6** Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors using place value strategies. Show and justify the calculation using equations, rectangular arrays, and models.

*continued*

**WORKBOOK ADDITIONAL PRACTICE**

- Lesson 5-1 Division Rules—p. 53
- Lesson 5-2 Relate Multiplication and Division—p. 54
- Lesson 5-3 Missing Numbers—p. 55
- Lesson 5-4 Number Patterns—p. 56
- Lesson 5-4A Use Bar Diagrams—p. 242
- Lesson 5-5 Estimate in Division—p. 57
- Lesson 5-5A Use Models to Divide—p. 243
- Lesson 5-6 One-Digit Quotients—p. 58
- Lesson 5-7 Divisibility—p. 59
- Lesson 5-8 Two-Digit Quotients—p. 60
- Lesson 5-9 More Two-Digit Quotients—p. 61
- Lesson 5-10 Three-Digit Quotients—p. 62
- Lesson 5-11 More Quotients—p. 63
- Lesson 5-12 Zeros in the Quotient—p. 64
- Lesson 5-13 Larger Numbers in Division—p. 65

**TEACHER'S EDITION/TEACHER'S EDITION eBOOK\***

- Chapter 5 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 163A–163I

**DIGITAL RESOURCES\***

- Chapter 5 Reteach Lessons & Practice/Reteach Teacher Support
- Divide Whole Numbers: Use Place Value
- Chapter 5 Reteach Videos
- Dividing Whole Numbers Using Place Value
  - Dividing Whole Numbers Using Properties

**OTHER DIGITAL RESOURCES\***

**SKILLS UPDATE**

Instruction/Student Practice

- Understand Division
- Division Facts
- Relate Multiplication and Division

\*Digital resources available at SadlierConnect.com

Online resources include Professional Development, Assessments, Enrichment Activities, Blackline Masters, Problem of the Day, Games & Study Aids, Take-Home Activities, and Teacher Resources



## Numbers and Operations (NO)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 4

### Fractions (NF)

- 4.NO.NF.1** Express equivalent fractions with a denominator of 10 and a denominator of 100 to generate a decimal notation.
- 4.NO.NF.2** Explain and demonstrate how a mixed number is equivalent to a fraction greater than one and how a fraction greater than one is equal to a mixed number using visual fraction models and reasoning strategies (proper and improper fractions limited to denominators of 2, 3, 4, 5, 6, 8, 10, 12, and 100).
- 4.NO.NF.3** Generate equivalent fractions using numerical representations, visual representations, and number lines (proper and improper fractions limited to denominators of 2, 3, 4, 5, 6, 8, 10, 12, and 100).
- 4.NO.NF.4** Demonstrate how equivalent fractions are generated by multiplying a fraction equivalent to 1 or the properties of multiplication (proper and improper fractions limited to denominators of 2, 3, 4, 5, 6, 8, 10, 12, and 100).

- 4.NO.NF.5** Compare and order fractions having, unlike numerators or denominators. Record comparisons using the symbols  $>$ ,  $<$ , and  $=$ . Justify using a visual fraction model (proper and improper fractions limited to denominators of 2, 3, 4, 5, 6, 8, 10, 12, and 100).

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**CHAPTER 8 FRACTION CONCEPTS**

- Lesson 8-4 Equivalent Fractions—pp. 272–273
- Lesson 8-5 Write Equivalent Fractions—pp. 274–275

WORKBOOK INSTRUCTION & PRACTICE

- Lesson 8-3A Model Equivalent Fractions—pp. 197–198

WORKBOOK ADDITIONAL PRACTICE

- Lesson 8-3A Model Equivalent Fractions—p. 247
- Lesson 8-4 Equivalent Fractions—p. 98
- Lesson 8-5 Write Equivalent Fractions—p. 99

TEACHER'S EDITION/TEACHER'S EDITION eBOOK\*

- Chapter 8 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 265A–265I

DIGITAL RESOURCES\*

Chapter 8 Reteach Lessons & Practice/Reteach Teacher Support

- Understand Equivalent Fractions
- Write Equivalent Fractions

Chapter 8 Reteach Videos

- Writing and Understanding Equivalent Fractions
- Compare Two Equivalent Fractions

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**CHAPTER 8 FRACTION CONCEPTS**

- Lesson 8-9 Compare Fractions—pp. 282–283
- Lesson 8-10 Order Fractions—pp. 284–285

WORKBOOK INSTRUCTION & PRACTICE

- Lesson 8-8A Compare Fractions Using Benchmarks—pp. 199–200

WORKBOOK ADDITIONAL PRACTICE

- Lesson 8-8A Compare Fractions Using Benchmarks—p. 248
- Lesson 8-9 Compare Fractions—p. 103
- Lesson 8-10 Order Fractions—p. 104

TEACHER'S EDITION/TEACHER'S EDITION eBOOK\*

- Chapter 8 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 265A–265I

DIGITAL RESOURCES\*

Chapter 8 Reteach Lessons & Practice/Reteach Teacher Support

- Compare Two Fractions

Chapter 8 Reteach Videos

- Writing and Understanding Equivalent Fractions
- Compare Two Equivalent Fractions

\*Digital resources available at SadlierConnect.com

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## Numbers and Operations (NO)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 4

### Fractions (NF)

**4.NO.NF.6** Solve authentic word problems by adding and subtracting fractions and mixed numbers with like denominators (proper and improper fractions limited to denominators of 2, 3, 4, 5, 6, 8, 10, 12, and 100).

**Clarification** In a progression, students would learn how to add and subtract fractions and mixed numbers to apply the understanding to word problems.

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**CHAPTER 9 FRACTIONS: ADDITION AND SUBTRACTION**

- Lesson 9-1 Add Fractions: Like Denominators—pp. 296–297
- Lesson 9-2 Subtract Fractions: Like Denominators—pp. 298–299
- Lesson 9-3 Improper Fractions—pp. 300–301
- Lesson 9-4 Estimate with Mixed Numbers—pp. 302–303
- Lesson 9-5 Add and Subtract Mixed Numbers—pp. 304–305

**WORKBOOK INSTRUCTION & PRACTICE**

- Lesson 9-1A Use Models to Add Fractions—pp. 201–202
- Lesson 9-1B Decompose Fractions—pp. 203–204
- Lesson 9-1C Use Models to Subtract Fractions—pp. 205–206
- Lesson 9-2A Word Problems Involving Fractions—pp. 207–208
- Lesson 9-4A Add Mixed Numbers—pp. 209–210
- Lesson 9-4B Subtract Mixed Numbers—pp. 211–212

**WORKBOOK ADDITIONAL PRACTICE**

- Lesson 9-1 Add Fractions: Like Denominators—p. 107
- Lesson 9-1A Use Models to Add Fractions—p. 249
- Lesson 9-1 Add Fractions: Like Denominators—p. 108
- Lesson 9-1B Decompose Fractions—p. 250
- Lesson 9-1C Use Models to Subtract Fractions—p. 251
- Lesson 9-2 Subtract Fractions: Like Denominators—p. 109
- Lesson 9-2A Word Problems Involving Fractions—p. 252
- Lesson 9-3 Improper Fractions—p. 110
- Lesson 9-4 Estimate with Mixed Numbers—p. 111
- Lesson 9-4A Add Mixed Numbers—p. 253
- Lesson 9-4B Subtract Mixed Numbers—p. 254
- Lesson 9-5 Add and Subtract Mixed Numbers—p. 112

**TEACHER'S EDITION/TEACHER'S EDITION eBOOK\***

- Chapter 9 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 295A–295I

**DIGITAL RESOURCES\***

Chapter 9 Reteach Lessons & Practice/Reteach Teacher Support

- Add and Subtract Fractions with Like Denominators
- Decompose a Fraction as a Sum of Fractions
- Add and Subtract Mixed Numbers with Like Denominators
- Problem Solving: Add and Subtract Fractions

Chapter 9 Reteach Videos

- Add and Subtract Fractions with Like Denominators
- Problem Solving: Adding and Subtracting Fractions
- Add Fractions: Denominators of 10 and 100

**4.NO.NF.7** Solve problems by multiplying fractions and whole numbers using visual fraction models (proper and improper fractions limited to denominators of 2, 3, 4, 5, 6, 8, 10, 12, and 100).

**Assessment Boundary:** Model with visuals how fractions are multiplied, rather than using a standard algorithm for multiplication with fractions.

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**CHAPTER 9 FRACTIONS: ADDITION AND SUBTRACTION**

**WORKBOOK INSTRUCTION & PRACTICE**

- Lesson 9-8A Multiply with Fractions—pp. 221–222

**WORKBOOK ADDITIONAL PRACTICE**

- Lesson 9-8A Multiply with Fractions—p. 259

**DIGITAL RESOURCES\***

Chapter 9 Reteach Lessons & Practice/Reteach Teacher Support

- Multiply Unit Fractions by Whole Numbers
- Multiply Fractions by Whole Numbers
- Problem Solving: Multiply Fractions by Whole Numbers

Chapter 9 Reteach Videos

- Multiply Unit Fractions by Whole Numbers

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## Algebraic Reasoning (AR)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 4

### Operations and Algebraic Thinking (OA)

**4.AR.OA.1** Automatically multiply and divide through 10 x 10.

**Clarification** Apply a flexible understanding of both vertical and horizontal orientation. Automaticity of facts is also in standards 3.AR.OA.1 and 4.AR.OA.1. See Appendix B for recommended automaticity.

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**SKILLS UPDATE: REVIEW OF GRADE 3 SKILLS**

- Meaning of Multiplication—p. 7
- Multiplication Facts—p. 8
- Multiply with 10, 11, and 12—p. 9
- Understand Division—p. 10
- Division Facts—p. 11
- Relate Multiplication and Division—p. 12

DIGITAL RESOURCES\*

**SKILLS UPDATE**

Instruction

- Meaning of Multiplication
- Multiplication Facts
- Multiply with 10, 11, and 12
- Understand Division
- Division Facts
- Relate Multiplication and Division

Student Practice

- Meaning of Multiplication
- Multiplication Facts
- Multiply with 10, 11, and 12
- Understand Division
- Division Facts
- Relate Multiplication and Division

**FLUENCY PRACTICE**

Multiplication

- Multiplication Facts

Division

- Division Facts

**4.AR.OA.2** Identify and apply the properties of operations for addition, subtraction, multiplication, and division and justify thinking.

**Clarification** Apply a flexible understanding of both vertical and horizontal orientation.

**Assessment Boundary** Learners utilize commutative, associative, identity, and distributive.

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**CHAPTER 2 ADDITION AND SUBTRACTION CONCEPTS**

- Lesson 2-1 Addition Properties—pp. 68–69
- Lesson 2-6 Mental Math—pp. 78–79

**WORKBOOK ADDITIONAL PRACTICE**

- Lesson 2-1 Addition Properties—p. 14
- Lesson 2-6 Mental Math—p. 19

**TEACHER'S EDITION/TEACHER'S EDITION eBOOK\***

- Chapter 2 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 67A–67I

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## Algebraic Reasoning (AR)

NORTH DAKOTA MATHEMATICS STANDARDS

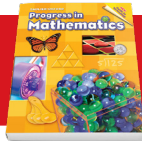
PROGRESS IN MATHEMATICS — GRADE 4

### Operations and Algebraic Thinking (OA)

<p><i>continued</i></p> <p><b>4.AR.OA.2</b> Identify and apply the properties of operations for addition, subtraction, multiplication, and division and justify thinking.</p> <p><b>Clarification</b> Apply a flexible understanding of both vertical and horizontal orientation.</p> <p><b>Assessment Boundary</b> Learners utilize commutative, associative, identity, and distributive.</p>	<p><i>continued</i></p> <p><b>STUDENT EDITION &amp; eBOOK*/TEACHER'S EDITION &amp; eBOOK*</b> <b>CHAPTER 4 MULTIPLY BY ONE AND TWO DIGITS</b></p> <ul style="list-style-type: none"> <li>Lesson 4-1 Multiplication Properties—pp. 126–127</li> </ul> <p><b>WORKBOOK INSTRUCTION &amp; PRACTICE</b></p> <ul style="list-style-type: none"> <li>Lesson 4-6A Use Mental Math to Multiply—pp. 181–182</li> </ul> <p><b>WORKBOOK ADDITIONAL PRACTICE</b></p> <ul style="list-style-type: none"> <li>Lesson 4-1 Multiplication Properties—p. 37</li> <li>Lesson 4-6A Use Mental Math to Multiply—p. 239</li> </ul> <p><b>TEACHER'S EDITION/TEACHER'S EDITION eBOOK*</b></p> <ul style="list-style-type: none"> <li>Chapter 4 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 125A–125I</li> </ul> <p><b>STUDENT EDITION &amp; eBOOK*/TEACHER'S EDITION &amp; eBOOK*</b> <b>CHAPTER 9 FRACTIONS: ADDITION AND SUBTRACTION</b></p> <p><b>WORKBOOK INSTRUCTION &amp; PRACTICE</b></p> <ul style="list-style-type: none"> <li>Lesson 9-4A Add Mixed Numbers (apply properties of addition)—pp. 209–210</li> <li>Lesson 9-8A Multiply with Fractions (commutative and associative properties of multiplication)—pp. 221–222</li> </ul> <p><b>WORKBOOK ADDITIONAL PRACTICE</b></p> <ul style="list-style-type: none"> <li>Lesson 9-4A Add Mixed Numbers—p. 253</li> <li>Lesson 9-8A Multiply with Fractions—p. 259</li> </ul>
<p><b>4.AR.OA.3</b> Solve multi-step authentic word problems using the four operations, including problems with interpreted remainders. Represent problems using equations, including a symbol as an unknown.</p> <p><b>Assessment Boundary</b> Use drawings and equations with symbols for the unknown number (variable) to represent a problem.</p> <p><i>continued</i></p>	<p><b>STUDENT EDITION &amp; eBOOK*/TEACHER'S EDITION &amp; eBOOK*</b> <b>MULTI-STEP AUTHENTIC WORD PROBLEMS</b></p> <ul style="list-style-type: none"> <li>SE/TE pp. 32, 34, 60, 71, 85, 89, 95, 99, 101, 109, 111, 113, 117, 118–119, 131, 135, 139, 141, 153, 154, 156–157, 165, 189, 195, 198, 209, 213, 215, 217, 219, 221, 223, 225, 230–231, 232–233, 241, 249, 259, 261, 289, 315, 316–317, 318–319, 350, 374–375, 397, 402–403, 404–405, 429, 432–433, 434–435, 454–455, 456–457</li> </ul> <p><b>INTRODUCTION TO PROBLEM SOLVING</b></p> <ul style="list-style-type: none"> <li>Choose the Operation (number sentence)—p. 30</li> <li>Use More Than One Step—p. 32</li> <li>Write a Number Sentence—p. 33</li> <li>Problem-Solving Applications: Mixed Review—p. 34</li> </ul> <p><b>CHAPTER 2 ADDITION AND SUBTRACTION CONCEPTS</b></p> <ul style="list-style-type: none"> <li>Lesson 2-4 Expressions and Variables—pp. 74–75</li> <li>Lesson 2-5 Addition and Subtraction Sentences—pp. 76–77</li> </ul> <p><b>WORKBOOK ADDITIONAL PRACTICE</b></p> <ul style="list-style-type: none"> <li>Lesson 2-4 Expressions and Variables—p. 17</li> <li>Lesson 2-5 Addition and Subtraction Sentences—p. 18</li> </ul> <p><i>continued</i></p>

\*Digital resources available at SadlierConnect.com

Online resources include Professional Development, Assessments, Enrichment Activities, Blackline Masters, Problem of the Day, Games & Study Aids, Take-Home Activities, and Teacher Resources



## Algebraic Reasoning (AR)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 4

### Operations and Algebraic Thinking (OA)

*continued*

**4.AR.OA.3** Solve multi-step authentic word problems using the four operations, including problems with interpreted remainders. Represent problems using equations, including a symbol as an unknown.

**Assessment Boundary** Use drawings and equations with symbols for the unknown number (variable) to represent a problem.

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STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**CHAPTER 5 DIVIDE BY ONE DIGIT**

- Lesson 5-17 Problem Solving Strategy: Interpret the Remainder—pp. 196–197
- Lesson 5-18 Problem Solving Applications: Mixed Review—pp. 198–199

WORKBOOK INSTRUCTION & PRACTICE

- Lesson 5-13A Multistep Problems & Bar Diagrams (solve problems with more than one step)—pp. 191–192

WORKBOOK ADDITIONAL PRACTICE

- Lesson 5-13A Multistep Problems & Bar Diagrams—p. 244
- Lesson 5-17 Problem Solving Strategy: Interpret the Remainder—p. 69
- Lesson 5-18 Problem Solving Applications: Mixed Review—p. 70

DIGITAL RESOURCES\*

Chapter 5 Reteach Lessons & Practice/Reteach Teacher Support

- Problem Solving: Multistep Problems

Chapter 5 Reteach Videos

- Problem Solving: Making Comparisons and Multistep Problems

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**CHAPTER 6 MEASUREMENT**

- Lesson 6-13 Problem Solving Strategy: Use More Than One Step—pp. 230–231
- Lesson 6-14 Problem Solving Applications: Mixed Review—pp. 232–233

WORKBOOK ADDITIONAL PRACTICE

- Lesson 6-13 Problem Solving Strategy: Use More Than One Step—p. 83
- Lesson 6-14 Problem Solving Applications: Mixed Review—p. 84

DIGITAL RESOURCES\*

Chapter 6 Reteach Videos

- Problem Solving: Making Comparisons and Multistep Problems

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**CHAPTER 12 DIVIDE BY TWO DIGITS**

- Lesson 12-11 Problem Solving Strategy: Use More Than One Step—pp. 402–403
- Lesson 12-12 Problem Solving Applications: Mixed Review—pp. 404–405

WORKBOOK ADDITIONAL PRACTICE

- Lesson 12-11 Problem Solving Strategy: Use More Than One Step—p. 152
- Lesson 12-11 Problem Solving Strategy: Use More Than One Step—p. 152

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## Algebraic Reasoning (AR)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 4

### Operations and Algebraic Thinking (OA)

*continued*

**4.AR.OA.3** Solve multi-step authentic word problems using the four operations, including problems with interpreted remainders. Represent problems using equations, including a symbol as an unknown.

**Assessment Boundary** Use drawings and equations with symbols for the unknown number (variable) to represent a problem.

*continued*

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**CHAPTER 13 DECIMALS**

- Lesson 13-11 Problem Solving Strategy: Use More Than One Step—pp. 432–433
- Lesson 13-12 Problem Solving Applications: Mixed Review—pp. 434–435

WORKBOOK ADDITIONAL PRACTICE

- Lesson 13-11 Problem Solving Strategy: Use More Than One Step—p. 163
- Lesson 13-12 Problem Solving Applications: Mixed Review—p. 164

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**CHAPTER 14 GET READY FOR ALGEBRA**

- Lesson 14-1 Equations—pp. 442–443
- Lesson 14-7 Problem Solving Strategy: More Than One Way (write an equation)—pp. 454–455
- Lesson 14-8 Problem Solving Applications: Mixed Review—pp. 456–457

WORKBOOK ADDITIONAL PRACTICE

- Lesson 14-1 Equations—p. 165
- Lesson 14-7 Problem Solving Strategy: More Than One Way—p. 171
- Lesson 14-8 Problem Solving Applications: Mixed Review—p. 172

DIGITAL RESOURCES\*

Chapter 14 Reteach Lessons & Practice/Reteach Teacher Support

- Problem Solving: Use Multiplication and Division to Make Comparisons
- Problem Solving: Multistep Problems

Chapter 14 Reteach Videos

- Problem Solving: Making Comparisons and Multistep Problems

**4.AR.OA.4** Find factor pairs and multiples within the range of 1-36 while classifying numbers as prime or composite.

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**CHAPTER 5 DIVIDE BY ONE DIGIT**

- Ch. 5 Enrichment: Factor Trees (composite number/prime number/prime factors)—p. 201

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**CHAPTER 9 FRACTIONS: ADDITION AND SUBTRACTION**

- Lesson 9-6 Multiples—pp. 306–307

WORKBOOK INSTRUCTION & PRACTICE

- Lesson 9-6A Factor Pairs—pp. 215–216
- Lesson 9-6B Prime and Composite Numbers—pp. 217–218

WORKBOOK ADDITIONAL PRACTICE

- Lesson 9-6A Factor Pairs—p. 256
- Lesson 9-6B Prime and Composite Numbers—p. 257

TEACHER'S EDITION/TEACHER'S EDITION eBOOK\*

- Chapter 9 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 295A–295I

DIGITAL RESOURCES\*

Chapter 9 Reteach Lessons & Practice/Reteach Teacher Support

- Find Factors and Multiples for Whole Numbers

\*Digital resources available at SadlierConnect.com

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## Algebraic Reasoning (AR)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 4

### Operations and Algebraic Thinking (OA)

**4.AR.OA.5** Interpret multiplication equations as a comparison. Represent multiplicative comparisons as multiplication equations.

**Example** Interpret  $35 = 5 \times 7$  as a statement that 35 is 5 times as many as 7 and 7 times as many as 5.

**Example** Kari has 3 marbles; Greg has 7 times as many. How many marbles does Greg have?  $3 \times 7 = 21$  or  $7 \times 3 = 21$ .

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**CHAPTER 4 MULTIPLY BY ONE AND TWO DIGITS**

WORKBOOK INSTRUCTION & PRACTICE

- Lesson 4-1B Use Multiplication to Compare Numbers—pp. 177–178

WORKBOOK ADDITIONAL PRACTICE

- Lesson 4-1B Use Multiplication to Compare Numbers—p. 237

TEACHER'S EDITION/TEACHER'S EDITION eBOOK\*

- Chapter 4 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 125A–125I

DIGITAL RESOURCES\*

Chapter 4 Reteach Lessons & Practice/Reteach Teacher Support

- Interpret Multiplication Equations as Comparisons
- Problem Solving: Use Multiplication and Division to Make Comparisons

Chapter 4 Reteach Videos

- Problem Solving: Making Comparisons and Multistep Problems
- Interpret Multiplication Equations as Comparisons

**2.NO.OA.5** Generate a number or shape pattern that follows a given rule while identifying apparent features of the pattern that were not explicit in the rule itself.

**Clarification** (e.g., Given a rule “add 3” and the starting number of 1, generate terms in the resulting sequence and observe that the terms appear to alternate between odd and even numbers.)

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**CHAPTER 4 MULTIPLY BY ONE AND TWO DIGITS**

- Lesson 4-10 Patterns in Multiplication—pp. 144–145

WORKBOOK INSTRUCTION & PRACTICE

- Lesson 4-1A Number Patterns—pp. 175–176

WORKBOOK ADDITIONAL PRACTICE

- Lesson 4-1A Number Patterns—p. 236
- Lesson 4-10 Patterns in Multiplication—p. 46

TEACHER'S EDITION/TEACHER'S EDITION eBOOK\*

- Chapter 4 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 125A–125I

DIGITAL RESOURCES\*

Chapter 4 Reteach Lessons & Practice/Reteach Teacher Support

- Generate and Analyze Number and Shape Patterns

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**CHAPTER 5 DIVIDE BY ONE DIGIT**

- Lesson 5-4 Number Patterns—pp. 170–171

WORKBOOK ADDITIONAL PRACTICE

- Lesson 5-4 Number Patterns—p. 56

TEACHER'S EDITION/TEACHER'S EDITION eBOOK\*

- Chapter 5 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 163A–163I

DIGITAL RESOURCES\*

Chapter 5 Reteach Lessons & Practice/Reteach Teacher Support

- Generate and Analyze Number and Shape Patterns

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**CHAPTER 12 DIVIDE BY TWO DIGITS**

- Lesson 12-1 Division Patterns—pp. 382–383

WORKBOOK ADDITIONAL PRACTICE

- Lesson 12-1 Division Patterns—p. 142

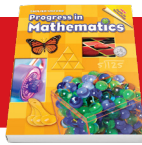
TEACHER'S EDITION/TEACHER'S EDITION eBOOK\*

- Chapter 12 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 381A–381I

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## Geometry and Measurement (GM)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 4

### Geometry (G)

**4.GM.G.1** Identify, label, and draw points, lines, line segments, rays, and angles (right, acute, obtuse).

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**CHAPTER 10 GEOMETRY**

- Lesson 10-1 Points, Lines, and Line Segments—pp. 326–327
- Lesson 10-2 Rays and Angles/Measuring Angles (right, acute, straight, obtuse)—pp. 328–329

WORKBOOK INSTRUCTION & PRACTICE

- Lesson 10-1A Angle Measure—pp. 223–224

WORKBOOK ADDITIONAL PRACTICE

- Lesson 10-1 Points, Lines, and Line Segments—p. 120
- Lesson 10-1A Angle Measure—p. 260
- Lesson 10-2 Rays and Angles—p. 121

TEACHER'S EDITION/TEACHER'S EDITION eBOOK\*

- Chapter 10 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 325A–325I

DIGITAL RESOURCES\*

- Chapter 10 Reteach Lessons & Practice/Reteach Teacher Support
- Draw and Identify Points, Lines, and Angles

**4.GM.G.2** Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines, or the presence or absence of angles of specified size.

**Clarification** Properties of two-dimensional shapes would include identifying the sides and angles found in polygons and triangles.

**Assessment Boundary** Shapes are classified by their attributes and not their formal name.

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**CHAPTER 10 GEOMETRY**

- Lesson 10-3 Parallel and Perpendicular Lines—pp. 330–331
- Lesson 10-5 Polygons—pp. 334–335
- Lesson 10-6 Quadrilaterals—pp. 336–337
- Lesson 10-7 Triangles—pp. 338–339

WORKBOOK ADDITIONAL PRACTICE

- Lesson 10-3 Parallel and Perpendicular Lines—p. 122
- Lesson 10-5 Polygons—p. 124
- Lesson 10-6 Quadrilaterals—p. 125
- Lesson 10-7 Triangles—p. 126

TEACHER'S EDITION/TEACHER'S EDITION eBOOK\*

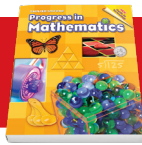
- Chapter 10 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 325A–325I

DIGITAL RESOURCES\*

- Chapter 10 Reteach Lessons & Practice/Reteach Teacher Support
- Classify Two-Dimensional Figures
- Chapter 10 Reteach Videos
- Classify Two-Dimensional Figures

\*Digital resources available at SadlierConnect.com

Online resources include Professional Development, Assessments, Enrichment Activities, Blackline Masters, Problem of the Day, Games & Study Aids, Take-Home Activities, and Teacher Resources



## Geometry and Measurement (GM)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 4

### Geometry (G)

**4.GM.G.3** Draw lines of symmetry in two-dimensional figures.

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**SKILLS UPDATE: REVIEW OF GRADE 3 SKILLS**

- Lines of Symmetry—p. 22

**CHAPTER 10 GEOMETRY**

WORKBOOK INSTRUCTION & PRACTICE

- Lesson 10-7A Symmetry—pp. 229–230

WORKBOOK ADDITIONAL PRACTICE

- Lesson 10-7A Symmetry—p. 263

TEACHER'S EDITION/TEACHER'S EDITION eBOOK\*

- Chapter 10 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 325A–325I

DIGITAL RESOURCES\*

Chapter 10 Reteach Lessons & Practice/Reteach Teacher Support

- Identify Lines of Symmetry

Chapter 10 Reteach Videos

- Identify Lines of Symmetry

OTHER DIGITAL RESOURCES\*

**SKILLS UPDATE**

Instruction/Student Practice

- Lines of Symmetry

### Measurement (M)

**4.GM.M.1** Know the relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb., oz.; l, ml; hr., min., sec. Record measurement equivalents in a two-column table.

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**CHAPTER 6 MEASUREMENT**

- Lesson 6-1 Measure with Inches—pp. 206–207
- Lesson 6-2 Rename Units of Length (equivalent measures)—pp. 208–209
- Lesson 6-4 Customary Units of Capacity—pp. 212–213
- Lesson 6-5 Customary Units of Weight—pp. 214–215
- Lesson 6-6 Measure with Metric Units—pp. 216–217
- Lesson 6-7 Work with Metric Units—pp. 218–219
- Lesson 6-8 Metric Units of Capacity—pp. 220–221
- Lesson 6-9 Metric Units of Mass—pp. 222–223
- Lesson 6-10 Temperature—pp. 224–225
- Lesson 6-11 Time—pp. 226–227

WORKBOOK ADDITIONAL PRACTICE

- Lesson 6-1 Measure with Inches—p. 71
- Lesson 6-2 Rename Units of Length—p. 72
- Lesson 6-4 Customary Units of Capacity—p. 74
- Lesson 6-5 Customary Units of Weight—p. 75
- Lesson 6-6 Measure with Metric Units—p. 76
- Lesson 6-7 Work with Metric Units—p. 77
- Lesson 6-8 Metric Units of Capacity—p. 78
- Lesson 6-9 Metric Units of Mass—p. 79
- Lesson 6-10 Temperature—p. 80
- Lesson 6-11 Time—p. 81

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## Geometry and Measurement (GM)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 4

### Measurement (M)

<p><i>continued</i></p> <p><b>4.GM.M.1</b> Know the relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb., oz.; l, ml; hr., min., sec. Record measurement equivalents in a two-column table.</p>	<p><i>continued</i></p> <p><b>TEACHER'S EDITION/TEACHER'S EDITION eBOOK*</b></p> <ul style="list-style-type: none"> <li>Chapter 6 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 205A–205I</li> </ul> <p><b>DIGITAL RESOURCES*</b></p> <p>Chapter 6 Reteach Lessons &amp; Practice/Reteach Teacher Support</p> <ul style="list-style-type: none"> <li>Problem Solving: Measurement</li> </ul> <p>Chapter 6 Reteach Videos</p> <ul style="list-style-type: none"> <li>Problem Solving: Measurement</li> </ul>
<p><b>4.GM.M.2</b> Generate simple conversions from a larger unit to a smaller unit to solve authentic problems within a single system of measurement, both customary and metric systems.</p>	<p><b>STUDENT EDITION &amp; eBOOK*/TEACHER'S EDITION &amp; eBOOK*</b></p> <p><b>CHAPTER 6 MEASUREMENT</b></p> <ul style="list-style-type: none"> <li>Lesson 6-2 Rename Units of Length—pp. 208–209</li> <li>Lesson 6-3 Compute Customary Units—pp. 210–211</li> <li>Lesson 6-4 Customary Units of Capacity—pp. 212–213</li> <li>Lesson 6-5 Customary Units of Weight—pp. 214–215</li> <li>Lesson 6-7 Work with Metric Units—pp. 218–219</li> <li>Lesson 6-8 Metric Units of Capacity—pp. 220–221</li> <li>Lesson 6-9 Metric Units of Mass—pp. 222–223</li> <li>Lesson 6-10 Temperature—pp. 224–225</li> <li>Lesson 6-11 Time—pp. 226–227</li> <li>Lesson 6-12 Elapsed Time—pp. 228–229</li> <li>Lesson 6-13 Problem Solving Strategy: Use More Than One Step—pp. 230–231</li> <li>Lesson 6-14 Problem Solving Applications: Mixed Review—pp. 232–233</li> </ul> <p><b>WORKBOOK INSTRUCTION &amp; PRACTICE</b></p> <ul style="list-style-type: none"> <li>Lesson 6-9A Represent Measures on a Number Line—pp. 193–194</li> <li>Lesson 6-11A Rename Measures—pp. 195–196</li> </ul> <p><b>WORKBOOK ADDITIONAL PRACTICE</b></p> <ul style="list-style-type: none"> <li>Lesson 6-2 Rename Units of Length—p. 72</li> <li>Lesson 6-3 Compute Customary Units—p. 73</li> <li>Lesson 6-4 Customary Units of Capacity—p. 74</li> <li>Lesson 6-5 Customary Units of Weight—p. 75</li> <li>Lesson 6-7 Work with Metric Units—p. 77</li> <li>Lesson 6-8 Metric Units of Capacity—p. 78</li> <li>Lesson 6-9 Metric Units of Mass—p. 79</li> <li>Lesson 6-9A Represent Measures on a Number Line—p. 245</li> <li>Lesson 6-10 Temperature—p. 80</li> <li>Lesson 6-11 Time—p. 81</li> <li>Lesson 6-11A Rename Measures—p. 246</li> <li>Lesson 6-12 Elapsed Time—p. 82</li> <li>Lesson 6-13 Problem Solving Strategy: Use More Than One Step—p. 83</li> <li>Lesson 6-14 Problem Solving Applications: Mixed Review—p. 84</li> </ul> <p><b>TEACHER'S EDITION/TEACHER'S EDITION eBOOK*</b></p> <ul style="list-style-type: none"> <li>Chapter 6 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 205A–205I</li> </ul> <p><b>DIGITAL RESOURCES*</b></p> <p>Chapter 6 Reteach Lessons &amp; Practice/Reteach Teacher Support</p> <ul style="list-style-type: none"> <li>Convert Customary Measurement Units</li> </ul> <p>Chapter 6 Reteach Videos</p> <ul style="list-style-type: none"> <li>Convert Customary Measurement Units</li> </ul>

\*Digital resources available at SadlierConnect.com  
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## Geometry and Measurement (GM)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 4

### Measurement (M)

**4.GM.M.3** Identify and use the appropriate tools, operations, and units of measurement, both customary and metric, to solve problems involving time, length, weight, mass, and capacity.

**STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\***

**CHAPTER 6 MEASUREMENT**

- Lesson 6-1 Measure with Inches—pp. 206–207
- Lesson 6-4 Customary Units of Capacity—pp. 212–213
- Lesson 6-5 Customary Units of Weight—pp. 214–215
- Lesson 6-6 Measure with Metric Units—pp. 216–217
- Lesson 6-8 Metric Units of Capacity—pp. 220–221
- Lesson 6-9 Metric Units of Mass—pp. 222–223
- Lesson 6-10 Temperature—pp. 224–225
- Lesson 6-11 Time—pp. 226–227
- Lesson 6-12 Elapsed Time—pp. 228–229
- Lesson 6-13 Problem Solving Strategy: Use More Than One Step—pp. 230–231
- Lesson 6-14 Problem Solving Applications: Mixed Review—pp. 232–233

**WORKBOOK INSTRUCTION & PRACTICE**

- Lesson 6-9A Represent Measures on a Number Line—pp. 193–194
- Lesson 6-11A Rename Measures—pp. 195–196

**WORKBOOK ADDITIONAL PRACTICE**

- Lesson 6-1 Measure with Inches—p. 71
- Lesson 6-4 Customary Units of Capacity—p. 74
- Lesson 6-5 Customary Units of Weight—p. 75
- Lesson 6-6 Measure with Metric Units—p. 76
- Lesson 6-8 Metric Units of Capacity—p. 78
- Lesson 6-9 Metric Units of Mass—p. 79
- Lesson 6-9A Represent Measures on a Number Line—p. 245
- Lesson 6-10 Temperature—p. 80
- Lesson 6-11 Time—p. 81
- Lesson 6-11A Rename Measures—p. 246
- Lesson 6-12 Elapsed Time—p. 82
- Lesson 6-13 Problem Solving Strategy: Use More Than One Step—p. 83
- Lesson 6-14 Problem Solving Applications: Mixed Review—p. 84

**TEACHER'S EDITION/TEACHER'S EDITION eBOOK\***

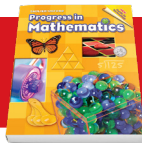
- Chapter 6 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 205A–205I

**DIGITAL RESOURCES\***

- Chapter 6 Reteach Lessons & Practice/Reteach Teacher Support
- Problem Solving: Measurement
  - Problem Solving: Multistep Problems
- Chapter 6 Reteach Videos
- Problem Solving: Measurement

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## Geometry and Measurement (GM)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 4

### Measurement (M)

**4.GM.M.4** Solve authentic word problems involving dollar bills, quarters, dimes, nickels, and pennies using \$ and ¢ symbols and decimal notation appropriately.

Students solve authentic word problems involving money in lessons throughout the program.

*Examples*

**Problem-Solving Applications: Mixed Review 4.** Paperbacks sold for 50¢ each. Hardcover books sold for \$1.25 each. Was it more expensive to buy 3 paperbacks or 1 hardcover book? (Lesson 1-13, SE p. 60)

**Products: Rounding to Estimate** A school bought 28 cans of paint for a special school project. The school bought the paint at a discounted price of \$5.25 per can. About how much money did the school spend on paint? (Lesson 4-11, SE p. 146)

In addition, lessons listed below guide students in using specific relational and computational operations to solving problems with money.

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**CHAPTER 1 PLACE VALUE**

- Lesson 1-8 Make Change—pp. 50–51
- Lesson 1-9 Compare and Order Money—pp. 52–53
- Lesson 1-11 Work with Money—pp. 56–57

WORKBOOK ADDITIONAL PRACTICE

- Lesson 1-8 Make Change—p. 8
- Lesson 1-9 Compare and Order Money—p. 9
- Lesson 1-11 Work with Money—p. 11

TEACHER'S EDITION/TEACHER'S EDITION eBOOK\*

- Chapter 1 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 35A–35I

**4.GM.M.5** Apply the area and perimeter formulas for rectangles, including connected rectangular figures, in problems.

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**CHAPTER 11 PERIMETER, AREA, AND VOLUME**

- Lesson 11-1 Use Perimeter Formulas—pp. 358–359
- Lesson 11-2 Use Area Formulas—pp. 360–361
- Lesson 11-3 Perimeter and Area—pp. 362–363

WORKBOOK INSTRUCTION & PRACTICE

- Lesson 11-3A Perimeter and Area Formulas—pp. 231–232

WORKBOOK ADDITIONAL PRACTICE

- Lesson 11-1 Use Perimeter Formulas—p. 133
- Lesson 11-2 Use Area Formulas—p. 134
- Lesson 11-3 Perimeter and Area—p. 135
- Lesson 11-3A Perimeter and Area Formulas—p. 264

TEACHER'S EDITION/TEACHER'S EDITION eBOOK\*

- Chapter 11 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 357A–357I

DIGITAL RESOURCES\*

- Chapter 11 Reteach Lessons & Practice/Reteach Teacher Support
- Problem Solving: Apply Area and Perimeter Formulas

*continued*

*continued*

\*Digital resources available at SadlierConnect.com

Online resources include Professional Development, Assessments, Enrichment Activities, Blackline Masters, Problem of the Day, Games & Study Aids, Take-Home Activities, and Teacher Resources



## Geometry and Measurement (GM)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 4

### Measurement (M)

*continued*

- 4.GM.M.5** Apply the area and perimeter formulas for rectangles, including connected rectangular figures, in problems.

*continued*

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**CHAPTER 2 ADDITION AND SUBTRACTION CONCEPTS**

- Lesson 2-8 Add and Subtract Money—pp. 82–83

WORKBOOK ADDITIONAL PRACTICE

- Lesson 2-8 Add and Subtract Money—p. 21

TEACHER'S EDITION/TEACHER'S EDITION eBOOK\*

- Chapter 2 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 67A–67I

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**CHAPTER 4 MULTIPLY BY ONE AND TWO DIGITS**

- Lesson 4-8 Multiply Money—pp. 140–141

WORKBOOK ADDITIONAL PRACTICE

- Lesson 4-8 Multiply Money—p. 44

TEACHER'S EDITION/TEACHER'S EDITION eBOOK\*

- Chapter 4 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 125A–125I

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**CHAPTER 5 DIVIDE BY ONE DIGIT**

- Lesson 5-14 Divide Money—pp. 190–191
- Lesson 13-11 Problem Solving Strategy: Use More Than One Step—pp. 432–433

WORKBOOK ADDITIONAL PRACTICE

- Lesson 5-14 Divide Money—p. 66
- Lesson 13-11 Problem Solving Strategy: Use More Than One Step—p. 163

TEACHER'S EDITION/TEACHER'S EDITION eBOOK\*

- Chapter 5 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 163A–163I

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**CHAPTER 13 DECIMALS**

- Lesson 13-10 Divide with Money—pp. 430–431

WORKBOOK ADDITIONAL PRACTICE

- Lesson 13-10 Divide with Money—p. 162

TEACHER'S EDITION/TEACHER'S EDITION eBOOK\*

- Chapter 13 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 411A–411I

OTHER DIGITAL RESOURCES\*

**SKILLS UPDATE**

- Instruction/Student Practice
- Recognize and Count Money

\*Digital resources available at SadlierConnect.com

Online resources include Professional Development, Assessments, Enrichment Activities, Blackline Masters, Problem of the Day, Games & Study Aids, Take-Home Activities, and Teacher Resources





## Geometry and Measurement (GM)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 4

### Measurement (M)

- 4.GM.M.6** Measure angles in whole-number degrees using a protractor. Using a protractor and ruler, draw angles of a specified measure.
- 4.GM.M.7** Recognize angle measures as additive and solve addition and subtraction problems to find unknown angles on a diagram.

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**CHAPTER 10 GEOMETRY**

- Lesson 10-2 Rays and Angles—pp. 328–329

WORKBOOK INSTRUCTION & PRACTICE

- Lesson 10-1A Angle Measure—pp. 223–224
- Lesson 10-2A Measure Angles—pp. 225–226
- Lesson 10-2B Unknown Angle Measures—pp. 227–228

WORKBOOK ADDITIONAL PRACTICE

- Lesson 10-1 Points, Lines, and Line Segments—p. 120
- Lesson 10-1A Angle Measure—p. 260
- Lesson 10-2 Rays and Angles—p. 121
- Lesson 10-2A Measure Angles—p. 261
- Lesson 10-2B Unknown Angle Measures—p. 262

TEACHER'S EDITION/TEACHER'S EDITION eBOOK\*

- Chapter 11 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 357A–357I

DIGITAL RESOURCES\*

Chapter 10 Reteach Lessons & Practice/Reteach Teacher Support

- Understand Angle Measures
- Use a Protractor to Measure Angles
- Problem Solving: Find Unknown Angle Measures
- Draw and Identify Points, Lines, and Angles

Chapter 10 Reteach Videos

- Understanding Angle Measures
- Problem Solving: Find Unknown Angle Measures

\*Digital resources available at SadlierConnect.com

Online resources include Professional Development, Assessments, Enrichment Activities, Blackline Masters, Problem of the Day, Games & Study Aids, Take-Home Activities, and Teacher Resources



## Data, Probability, and Statistics (DPS)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 4

### Data (D)

**4.DPS.D.1** Formulate questions to collect, organize, and represent data to reason with math and across disciplines.

**Clarification** Choose the visual representation that best displays the data collected (e.g., pictograph, bar graph, and tallies).

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**CHAPTER 7 STATISTICS AND PROBABILITY**

- Lesson 7-1 Pictographs—pp. 240–241
- Lesson 7-2 Bar Graphs—pp. 242–243
- Lesson 7-3 Line Graphs—pp. 244–245
- Lesson 7-4 Surveys and Line Plots—pp. 246–247
- Lesson 7-5 Circle Graphs—pp. 248–249
- Lesson 7-9 Problem Solving Strategy: Use a Diagram/Graph—pp. 256–257
- Lesson 7-10 Problem Solving Applications: Mixed Review—pp. 258–259

WORKBOOK ADDITIONAL PRACTICE

- Lesson 7-1 Pictographs—p. 85
- Lesson 7-2 Bar Graphs—p. 86
- Lesson 7-3 Line Graphs—p. 87
- Lesson 7-4 Surveys and Line Plots—p. 88
- Lesson 7-5 Circle Graphs—p. 89
- Lesson 7-9 Problem Solving Strategy: Use a Diagram/Graph—p. 93
- Lesson 7-10 Problem Solving Applications: Mixed Review—p. 94

TEACHER'S EDITION/TEACHER'S EDITION eBOOK\*

- Chapter 7 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 239A–239I

DIGITAL RESOURCES\*

- Chapter 7 Reteach Lessons & Practice/Reteach Teacher Support
- Problem Solving: Use Line Plots

**4.DPS.D.2** Generate data and create line plots to display a data set of fractions of a unit ( $\frac{1}{2}$ ,  $\frac{1}{4}$ ,  $\frac{1}{8}$ ). Solve problems involving addition and subtraction of fractions by using information presented in line plots.

**Clarification** The DPS.D category in K-4 describes graphs and tables that students are expected to learn. 4.DPS.D.2 encompasses all graphs, and the problem now dictates which visual representation students should use.

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**CHAPTER 7 STATISTICS AND PROBABILITY**

- Lesson 7-4 Surveys and Line Plots—pp. 246–247

WORKBOOK ADDITIONAL PRACTICE

- Lesson 7-4 Surveys and Line Plots—p. 88

TEACHER'S EDITION/TEACHER'S EDITION eBOOK\*

- Chapter 7 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 239A–239I

DIGITAL RESOURCES\*

- Chapter 7 Reteach Lessons & Practice/Reteach Teacher Support
- Problem Solving: Use Line Plots

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

**CHAPTER 9 FRACTIONS: ADDITION AND SUBTRACTION**

WORKBOOK INSTRUCTION & PRACTICE

- Lesson 9-5A Organize Measurement Data (line plots)—pp. 213–214

WORKBOOK ADDITIONAL PRACTICE

- Lesson 9-5A Organize Measurement Data—p. 255

DIGITAL RESOURCES\*

- Chapter 9 Reteach Lessons & Practice/Reteach Teacher Support
- Problem Solving: Use Line Plots

\*Digital resources available at SadlierConnect.com

Online resources include Professional Development, Assessments, Enrichment Activities, Blackline Masters, Problem of the Day, Games & Study Aids, Take-Home Activities, and Teacher Resources



## Data, Probability, and Statistics (DPS)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 4

### Data (D)

**4.DPS.D.3** Utilize graphs and diagrams to represent and solve authentic word problems using the four operations involving whole numbers, benchmark fractions, and decimals.

**Assessment Boundary** This includes distances, intervals of time, liquid volumes, masses of objects, and money.

STUDENT EDITION & eBOOK\*/TEACHER'S EDITION & eBOOK\*

#### CHAPTER 7 STATISTICS AND PROBABILITY

- Lesson 7-1 Pictographs—pp. 240–241
- Lesson 7-2 Bar Graphs—pp. 242–243
- Lesson 7-3 Line Graphs—pp. 244–245
- Lesson 7-4 Surveys and Line Plots—pp. 246–247
- Lesson 7-5 Circle Graphs—pp. 248–249
- Lesson 7-9 Problem Solving Strategy: Use a Diagram/Graph—pp. 256–257
- Lesson 7-10 Problem Solving Applications: Mixed Review—pp. 258–259

#### WORKBOOK ADDITIONAL PRACTICE

- Lesson 7-1 Pictographs—p. 85
- Lesson 7-2 Bar Graphs—p. 86
- Lesson 7-3 Line Graphs—p. 87
- Lesson 7-4 Surveys and Line Plots—p. 88
- Lesson 7-5 Circle Graphs—p. 89
- Lesson 7-9 Problem Solving Strategy: Use a Diagram/Graph—p. 93
- Lesson 7-10 Problem Solving Applications: Mixed Review—p. 94

#### TEACHER'S EDITION/TEACHER'S EDITION eBOOK\*

- Chapter 7 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 239A–239I

#### DIGITAL RESOURCES\*

- Chapter 7 Reteach Lessons & Practice/Reteach Teacher Support
  - Problem Solving: Use Line Plots

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