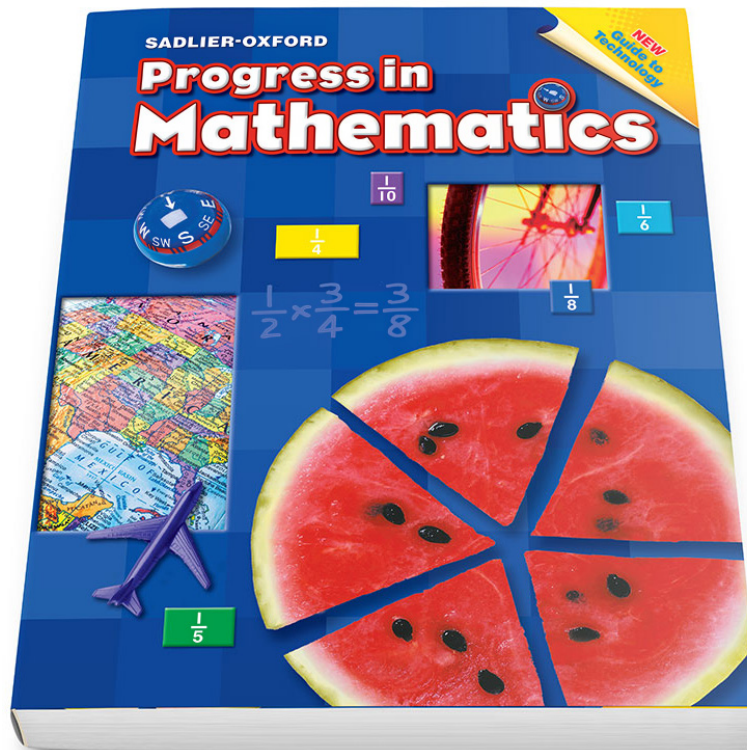


Progress in Mathematics

Correlation to the North Dakota Mathematics Standards JULY 2023

Grade 5



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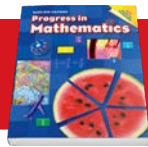
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Numbers and Operations (NO)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 5

Counting and Cardinality (CC)

5.NO.CC.1 Read and write decimals to the thousandths, including standard, word, and expanded forms.

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

SKILLS UPDATE: REVIEW OF GRADE 4 SKILLS

- Tenths and Hundredths—p. 11

CHAPTER 1 PLACE VALUE, ADDITION, AND SUBTRACTION

- Lesson 1-4 Thousandths—pp. 36–37

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- Lesson 1-4 Thousandths—p. 3
- Lesson 1-4A Decimals and Expanded Form—p. 237

TEACHER'S EDITION/TEACHER'S EDITION eBOOK*

- Chapter 1 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 29a–29l

DIGITAL RESOURCES*

Chapter 1 Reteach Lessons & Practice/Reteach Teacher Support

- Read and Write Decimals to Thousandths

Chapter 1 Reteach Videos

- Read and Write Decimals to Thousandths

CHAPTER 8 DECIMALS: ADDITION AND SUBTRACTION

- Lesson 8-2 Decimals and Place Value—pp. 270–271

WORKBOOK ADDITIONAL PRACTICE

- Lesson 8-2 Decimals and Place Value—p. 92

TEACHER'S EDITION/TEACHER'S EDITION eBOOK*

- Chapter 8 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 267A–267l

DIGITAL RESOURCES*

Chapter 8 Reteach Lessons & Practice/Reteach Teacher Support

- Read and Write Decimals to Thousandths

Chapter 8 Reteach Videos

- Read and Write Decimals to Thousandths

OTHER DIGITAL RESOURCES*

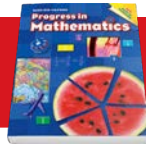
SKILLS UPDATE

Instruction/Student Practice

- Tenths and Hundredths

*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 5

Base Ten (BT)

5.NO.NBT.1 Understand that in a multi-digit number, a digit in one place represents ten times as much as it represents in the place to its right and 1/10 of what it represents in the place to its left.

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

CHAPTER 1 PLACE VALUE, ADDITION, AND SUBTRACTION

- Lesson 1-1 What Is a Billion?—pp. 30–31

WORKBOOK INSTRUCTION & PRACTICE

- Lesson 1-4A Decimals and Expanded Form—pp. 177–178

WORKBOOK ADDITIONAL PRACTICE

- Lesson 1-4 Thousandths—p. 3
- Lesson 1-4A Decimals and Expanded Form—p. 237

TEACHER'S EDITION/TEACHER'S EDITION eBOOK*

- Chapter 1 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 29a–29i

DIGITAL RESOURCES*

Chapter 1 Reteach Lessons & Practice/Reteach Teacher Support

- Understand Place Value

Chapter 1 Reteach Videos

- Understand Place Value

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

CHAPTER 8 DECIMALS: ADDITION AND SUBTRACTION

- Lesson 8-2 Decimals and Place Value—pp. 270–271

WORKBOOK ADDITIONAL PRACTICE

- Lesson 8-2 Decimals and Place Value—p. 92

TEACHER'S EDITION/TEACHER'S EDITION eBOOK*

- Chapter 8 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 267a–267i

DIGITAL RESOURCES*

Chapter 8 Reteach Lessons & Practice/Reteach Teacher Support

- Understand Place Value

Chapter 8 Reteach Videos

- Understand Place Value

5.NO.NBT.2 Compare two decimals to the thousandth place using symbols $>$, $<$, and $=$. Justify comparisons based on the value of the digits.

Clarification Ordering numbers may be included for number comparisons.

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

CHAPTER 1 PLACE VALUE, ADDITION, AND SUBTRACTION

- Lesson 1-6 Compare and Order Numbers/Compare and Order Decimals—pp. 40–41

WORKBOOK ADDITIONAL PRACTICE

- Lesson 1-6 Compare and Order Numbers—p. 5

TEACHER'S EDITION/TEACHER'S EDITION eBOOK*

- Chapter 1 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 29a–29i

DIGITAL RESOURCES*

Chapter 1 Reteach Lessons & Practice/Reteach Teacher Support

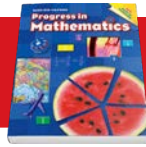
- Compare Decimals to Thousandths

Chapter 1 Reteach Videos

- Compare and Round Decimals

*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 5

Base Ten (BT)

5.NO.NBT.3 Apply place value understanding to round decimals to any place.

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

CHAPTER 1 PLACE VALUE, ADDITION, AND SUBTRACTION

- Lesson 1-7 Rounding Numbers/Rounding Decimals and Money—pp. 42–43

WORKBOOK ADDITIONAL PRACTICE

- Lesson 1-7 Rounding Numbers—p. 6

TEACHER'S EDITION/TEACHER'S EDITION eBOOK*

- Chapter 1 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 29a–29l

DIGITAL RESOURCES*

Chapter 1 Reteach Lessons & Practice/Reteach Teacher Support

- Round Decimals: Use Place Value

Chapter 1 Reteach Videos

- Compare and Round Decimals

5.NO.NBT.4 Multiply multi-digit whole numbers using strategies flexibly, including the algorithm.

Clarification Apply a flexible understanding of both vertical and horizontal orientation. Mastery of the multiplication algorithm is expected.

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

SKILLS UPDATE: REVIEW OF GRADE 4 SKILLS

- Multiply One Digit—p. 5

CHAPTER 2 MULTIPLICATION

- Lesson 2-1 Factors and Products—pp. 66–67
- Lesson 2-2 Properties of Multiplication—pp. 68–69
- Lesson 2-3 Mental Math: Special Factors—pp. 70–71
- Lesson 2-4 Patterns in Multiplication—pp. 72–73
- Lesson 2-5 Estimate Products—pp. 74–75
- Lesson 2-6 Zeros in the Multiplicand—pp. 76–77
- Lesson 2-7 Multiply Two Digits—pp. 78–79
- Lesson 2-8 Multiply Three Digits—pp. 80–81
- Lesson 2-9 Zeros in the Multiplier—pp. 82–83

WORKBOOK

- Lesson 2-1 Factors and Products—p. 15
- Lesson 2-2 Properties of Multiplication—p. 15
- Lesson 2-3 Mental Math: Special Factors—p. 16
- Lesson 2-4 Patterns in Multiplication—p. 17
- Lesson 2-5 Estimate Products—p. 18
- Lesson 2-6 Zeros in the Multiplicand—p. 19
- Lesson 2-7 Multiply Two Digits—p. 20
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- Lesson 2-9 Zeros in the Multiplier—p. 22

TEACHER'S EDITION & TE eBOOK*

- Chapter 2 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 65A–65I

DIGITAL RESOURCES*

Chapter 2 Reteach Lessons & Practice/Reteach Teacher Support

- Multiply Fluently with Multi-Digit Numbers

OTHER DIGITAL RESOURCES*

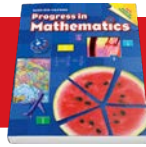
SKILLS UPDATE

Instruction/Student Practice

- Multiply One Digit

*Digital resources available at SadlierConnect.com

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Numbers and Operations (NO)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 5

Base Ten (BT)

5.NO.NBT.5 Use concrete models, drawings, place value strategies, properties of operations and/or relationships to add, subtract, and multiply decimals to hundredths.

Clarification Properties of Operations – See Appendix A, Table 1.
Division of decimals is found within the sixth-grade standards.

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

CHAPTER 8 DECIMALS: ADDITION AND SUBTRACTION

- Lesson 8-3 Add Decimals—pp. 272-273
- Lesson 8-4 Estimate Decimal Sums—pp. 274-275
- Lesson 8-5 Add More Decimals—pp. 276-277
- Lesson 8-6 Subtract Decimals—pp. 278-279
- Lesson 8-7 Estimate Decimal Differences—pp. 280-281
- Lesson 8-8 Subtract More Decimals—pp. 282-283

WORKBOOK INSTRUCTION & PRACTICE

- Lesson 8-2A Use Models to Add Decimals—pp. 203-204
- Lesson 8-2B Mental Math Add Decimals—pp. 205-206
- Lesson 8-5A Use Models to Subtract Decimals—pp. 207-208

WORKBOOK ADDITIONAL PRACTICE

- Lesson 8-2A Use Models to Add Decimals—p. 250
- Lesson 8-2B Mental Math Add Decimals—p. 251
- Lesson 8-3 Add Decimals—p. 93
- Lesson 8-4 Estimate Decimal Sums—p. 94
- Lesson 8-5 Add More Decimals—p. 95
- Lesson 8-5A Use Models to Subtract Decimals—p. 252
- Lesson 8-6 Subtract Decimals—p. 96
- Lesson 8-7 Estimate Decimal Differences—p. 97
- Lesson 8-8 Subtract More Decimals—p. 98

TEACHER'S EDITION/TEACHER'S EDITION eBOOK*

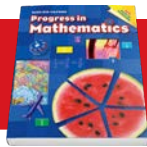
- Chapter 8 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 267A-267I

DIGITAL RESOURCES*

- Chapter 8 Reteach Lessons & Practice/Reteach Teacher Support
- Add and Subtract Decimals to Hundredths
- Chapter 8 Reteach Videos
- Add and Subtract Decimals to Hundredths

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Numbers and Operations (NO)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 5

Base Ten (BT)

5.NO.NBT.6 Find whole-number quotients and remainders with up to four-digit dividends and two-digit divisors using place value strategies. Show and justify the calculation by using equations, rectangular arrays, and/or area models.

Clarification Division procedures, including the algorithm, are included in sixth grade.

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

CHAPTER 3 DIVISION

- Lesson 3-1 Understanding Division—pp. 96–97
- Lesson 3-2 Division Patterns—pp. 98–99
- Lesson 3-3 Three-Digit Quotients—pp. 100–101
- Lesson 3-4 Larger Quotients—pp. 102–103
- Lesson 3-5 Zeros in the Quotient—pp. 104–105
- Lesson 3-6 Short Division—pp. 106–107
- Lesson 3-7 Explore Divisibility—pp. 108–109
- Lesson 3-8 Divisibility and Mental Math—pp. 110–111
- Lesson 3-9 Estimation Compatible Numbers—pp. 112–113
- Lesson 3-10 Teens as Divisors—pp. 114–115
- Lesson 3-11 Two-Digit Divisors—pp. 116–117
- Lesson 3-12 Divide Larger Numbers—pp. 118–119

WORKBOOK INSTRUCTION & PRACTICE

- Lesson 3-9A Use Arrays to Divide—pp. 179–180
- Lesson 3-10A Use Strategies to Divide—pp. 181–182

WORKBOOK ADDITIONAL PRACTICE

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- Lesson 3-4 Larger Quotients—p. 29
- Lesson 3-5 Zeros in the Quotient—p. 30
- Lesson 3-6 Short Division—p. 31
- Lesson 3-7 Explore Divisibility—p. 32
- Lesson 3-8 Divisibility and Mental Math—p. 32
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- Lesson 3-9A Use Arrays to Divide—p. 238
- Lesson 3-10 Teens as Divisors—p. 34
- Lesson 3-10A Use Strategies to Divide—p. 239
- Lesson 3-11 Two-Digit Divisors—p. 35
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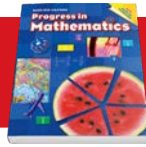
- Chapter 3 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 95A–95I

DIGITAL RESOURCES*

- Chapter 3 Reteach Lessons & Practice/Reteach Teacher Support
 - Divide Whole Numbers: Use Place Value Strategies
 - Divide Whole Numbers: Use Properties of Operations
- Chapter 3 Reteach Videos
 - Divide Whole Numbers Using Properties
 - Divide Whole Numbers Using Place Value

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Numbers and Operations (NO)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 5

Base Ten (BT)

5.NO.NBT.7 Explain patterns in the number of zeros of the product when multiplying a number by powers of 10. Explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10.

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CHAPTER 1 PLACE VALUE, ADDITION, AND SUBTRACTION

WORKBOOK INSTRUCTION & PRACTICE

- Lesson 1-3A Powers of Ten—pp. 175–176

WORKBOOK ADDITIONAL PRACTICE

- Lesson 1-3A Powers of Ten—p. 236

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

CHAPTER 2 MULTIPLICATION

- Ch. 2 Enrichment: Exponents—p. 91

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

CHAPTER 9 DECIMALS: MULTIPLICATION AND DIVISION

- Lesson 9-1 Multiply by 10, 100, and 1000—pp. 294–295

WORKBOOK ADDITIONAL PRACTICE

- Lesson 9-1 Multiply by 10, 100, and 1000—p. 101

TEACHER'S EDITION/TEACHER'S EDITION eBOOK*

- Chapter 9 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 293A–293I

DIGITAL RESOURCES*

- Chapter 9 Reteach Lessons & Practice/Reteach Teacher Support
 - Powers of 10: Use Patterns and Whole-Number Exponents
- Chapter 9 Reteach Videos
 - Powers of 10: Use Patterns and Whole-Number Exponents

Related content

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

CHAPTER 4 NUMBER THEORY AND FRACTIONS

- Lesson 4-2 Factors, Primes, and Composites/Prime Factorization (use exponents when appropriate)—pp. 136–137

WORKBOOK ADDITIONAL PRACTICE

- Lesson 4-2 Factors, Primes, and Composites—p. 41

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- Chapter 4 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 133A–133I

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

CHAPTER 8 DECIMALS: ADDITION AND SUBTRACTION

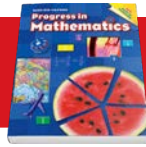
- Ch. 8 Enrichment: Scientific Notation—p. 289

CHAPTER 9 DECIMALS: MULTIPLICATION AND DIVISION

- Ch. 9 Enrichment: Fractions to Decimals (powers of 10)—p. 319

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Numbers and Operations (NO)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 5

Fractions (NF)

5.NO.NF.1 Generate equivalent forms of commonly used fractions and decimals (e.g., halves, fourths, fifths, tenths).

Clarification This standard includes writing fractions in the lowest terms.

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

SKILLS UPDATE: REVIEW OF GRADE 4 SKILLS

- Equivalent Fractions—p. 9
- Tenths and Hundredths—p. 11

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

CHAPTER 4 NUMBER THEORY AND FRACTIONS

- Lesson 4-4 Fraction Sense/Finding Equivalent Fractions—pp. 140–141
- Lesson 4-5 Fractions in Lowest Terms—pp. 142–143
- Lesson 4-6 Fractions in Greater Terms—pp. 144–145
- Lesson 4-10 Compare and Order Fractions—pp. 152–153

WORKBOOK ADDITIONAL PRACTICE

- Lesson 4-4 Fraction Sense—p. 43
- Lesson 4-5 Fractions in Lowest Terms—p. 44
- Lesson 4-6 Fractions in Greater Terms—p. 45
- Lesson 4-10 Compare and Order Fractions—p. 48

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- Chapter 4 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 133A–133I

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

CHAPTER 9 DECIMALS: MULTIPLICATION AND DIVISION

- Ch. 9 Enrichment: Fractions to Decimals—p. 319

OTHER DIGITAL RESOURCES*

SKILLS UPDATE

- Instruction/Student Practice
- Equivalent Fractions
 - Tenths and Hundredth

5.NO.NF.2 Explain why multiplying a given number by a fraction greater than one results in a product greater than the given number and explain why multiplying a given number by a fraction less than one results in a product smaller than the given number.

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

CHAPTER 6 FRACTIONS: MULTIPLICATION AND DIVISION

WORKBOOK INSTRUCTION & PRACTICE

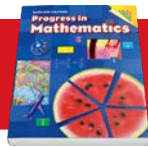
- Lesson 6-2B Scaling Fractions—pp. 195–196

WORKBOOK ADDITIONAL PRACTICE

- Lesson 6-2B Scaling Fractions—p. 246

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Numbers and Operations (NO)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 5

Fractions (NF)

5.NO.NF.3 Solve authentic word problems by adding and subtracting fractions and mixed numbers with unlike denominators using visual fraction models and equations.

Clarification In a progression, students may practice adding and subtracting fractions and mixed numbers with unlike denominators prior to using the understanding in word problems.

continued

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

CHAPTER 5 FRACTIONS: ADDITION AND SUBTRACTION

- Lesson 5-1 Rename Fraction Sums: Like Denominators—pp. 164–165
- Lesson 5-2 Add Fractions: Unlike Denominators—pp. 166–167
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- Lesson 5-5 Rename Mixed Number Sums—pp. 172–173
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- Lesson 5-7 Subtract Fractions: Unlike Denominators—pp. 176–177
- Lesson 5-8 More Subtraction of Fractions—pp. 178–179
- Lesson 5-9 Subtract Mixed Numbers—pp. 180–181
- Lesson 5-10 Subtraction with Renaming—pp. 182–183
- Lesson 5-11 More Renaming in Subtraction—pp. 184–185
- Lesson 5-12 Estimate Sums and Differences of Mixed Numbers—pp. 186–187
- Lesson 5-13 Problem Solving Strategy: Work Backward—pp. 188–189
- Lesson 5-14 Problem Solving Applications: Mixed Review—pp. 190–191

WORKBOOK INSTRUCTION & PRACTICE

- Lesson 5-1A Add Fractions with Unlike Denominators—pp. 185–186
- Lesson 5-6A Subtract Fractions with Unlike Denominators—pp. 187–188
- Lesson 5-8A Subtract Fractions and Whole Numbers from Mixed Numbers—pp. 189–190
- Lesson 5-9A Use Benchmark Fractions—pp. 191–192

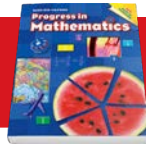
WORKBOOK ADDITIONAL PRACTICE

- Lesson 5-1 Rename Fraction Sums: Like Denominators—p. 51
- Lesson 5-1A Add Fractions with Unlike Denominators—p. 241
- Lesson 5-2 Add Fractions: Unlike Denominators—p. 51
- Lesson 5-3 Add Three Fractions—p. 52
- Lesson 5-4 Add Mixed Numbers—p. 53
- Lesson 5-5 Rename Mixed Number Sums—p. 54
- Lesson 5-6 Rename Differences: Like Denominators—p. 55
- Lesson 5-6A Subtract Fractions with Unlike Denominators—p. 242
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- Lesson 5-9A Use Benchmark Fractions—p. 244
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- Lesson 5-12 Estimate Sums and Differences of Mixed Numbers—p. 60
- Lesson 5-13 Problem Solving Strategy: Work Backward—p. 61
- Lesson 5-14 Problem Solving Applications: Mixed Review—p. 62

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Numbers and Operations (NO)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 5

Fractions (NF)

continued

5.NO.NF.3 Solve authentic word problems by adding and subtracting fractions and mixed numbers with unlike denominators using visual fraction models and equations.

Clarification In a progression, students may practice adding and subtracting fractions and mixed numbers with unlike denominators prior to using the understanding in word problems.

continued

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

- Interpret Fractions as Division
- Interpret Products of Fractions
- Find Areas of Rectangles: Tile and Multiply
- Problem Solving: Multiply Fractions and Mixed Numbers
- Divide Unit Fractions by Whole Numbers
- Divide Whole Numbers by Unit Fractions
- Problem Solving: Divide Unit Fractions and Whole Numbers

Chapter 5 Reteach Videos

- Interpret Products of Fractions
- Find Areas of Rectangles: Tile and Multiply
- Dividing Unit Fractions by Whole Numbers and Whole Numbers by a Unit Fraction
- Interpret Fractions as Division

5.NO.NF.4 Solve authentic word problems by multiplying fractions and mixed numbers using visual fraction models and equations.

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

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

CHAPTER 6 FRACTIONS: MULTIPLICATION AND DIVISION

- Lesson 6-1 Multiply Fractions—pp. 198–199
- Lesson 6-2 Multiply Fractions by Fractions—pp. 200–201
- Lesson 6-3 Multiply Fractions and Whole Numbers—pp. 202–203
- Lesson 6-4 Multiply Fractions Using the GCF—pp. 204–205
- Lesson 6-5 Rename Mixed Numbers as Fractions—pp. 206–207
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WORKBOOK INSTRUCTION & PRACTICE

- Lesson 6-2A Use Properties to Multiply Fractions and Whole Numbers—pp. 193–194

WORKBOOK ADDITIONAL PRACTICE

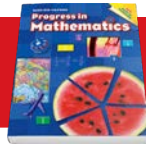
- Lesson 6-1 Multiply Fractions—p. 63
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- Lesson 6-2A Use Properties to Multiply Fractions and Whole Numbers—p. 245
- Lesson 6-3 Multiply Fractions and Whole Numbers—p. 65
- Lesson 6-4 Multiply Fractions Using the GCF—p. 66
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- Lesson 6-16 Problem Solving Strategy: Use Simpler Numbers—p. 78
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Numbers and Operations (NO)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 5

Fractions (NF)

continued

5.NO.NF.4 Solve authentic word problems by multiplying fractions and mixed numbers using visual fraction models and equations.

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

continued

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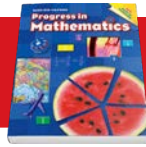
- Chapter 6 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 197A–197I

DIGITAL RESOURCES*

- Chapter 6 Reteach Lessons & Practice/Reteach Teacher Support
- Interpret Products of Fractions
 - Find Areas of Rectangles: Tile and Multiply
 - Problem Solving: Multiply Fractions and Mixed Numbers
- Chapter 6 Reteach Videos
- Interpret Products of Fractions
 - Find Areas of Rectangles: Tile and Multiply

*Digital resources available at SadlierConnect.com

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Algebraic Reasoning (AR)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 5

Operations and Algebraic Thinking (OA)

5.AR.OA.1 Automatically multiply and divide through 12 x 12.

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.

DIGITAL RESOURCES*

FLUENCY PRACTICE

- Multiplication
 - Multiplication Facts
- Division
 - Division Facts

5.AR.OA.2 Analyze problems using the order of operations to solve and evaluate expressions while justifying thinking.

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

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CHAPTER 3 DIVISION

- Lesson 3-14 Order of Operations—pp. 122-123

WORKBOOK ADDITIONAL PRACTICE

- Lesson 3-14 Order of Operations—p. 38

TEACHER'S EDITION/TEACHER'S EDITION eBOOK*

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

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

CHAPTER 9 DECIMALS: MULTIPLICATION AND DIVISION

- Lesson 9-5 Zeros in the Product (compute using the order of operations)—p. 303

WORKBOOK ADDITIONAL PRACTICE

- Lesson 9-5 Zeros in the Product—p. 105

TEACHER'S EDITION/TEACHER'S EDITION eBOOK*

- Chapter 9 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 293A-293I

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

CHAPTER 14 MORE CONCEPTS IN ALGEBRA

- Lesson 14-1 Algebraic Expressions and Equations: Evaluate Algebraic Expressions or Equations (apply rules for the order of operations)—pp. 440-441
- Lesson 14-11 Multiply Integers (compute using order of operations)—pp. 460-461
- Lesson 14-14 Function Tables: Critical Thinking (use the order of operations)—p. 467

WORKBOOK ADDITIONAL PRACTICE

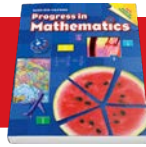
- Lesson 14-1 Algebraic Expressions and Equations—p. 156
- Lesson 14-11 Multiply Integers—p. 166
- Lesson 14-14 Function Tables—p. 169

TEACHER'S EDITION/TEACHER'S EDITION eBOOK*

- Chapter 14 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 439A-439I

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Algebraic Reasoning (AR)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 5

Operations and Algebraic Thinking (OA)

5.AR.OA.3 Write simple expressions that record calculations with numbers. Interpret numerical expressions without evaluating them.

Clarification Recognize that $3 \times (18,932 + 921)$ is three times as large as $18,932 + 921$ without having to calculate the indicated sum or product.

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CHAPTER 3 DIVISION

- Lesson 3-14 Order of Operations (simplify mathematical expressions)—pp. 122–123
- Ch. 3 Enrichment: Translate Algebraic Expressions—p. 129

WORKBOOK INSTRUCTION & PRACTICE

- Lesson 3-14A Variables and Expressions—pp. 183–184

WORKBOOK ADDITIONAL PRACTICE

- Lesson 3-14 Order of Operations—p. 38
- Lesson 3-14A Variables and Expressions—p. 240

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

- Write and Interpret Numerical Expressions

Chapter 3 Reteach Videos

- Writing, Interpreting, and Evaluating Numerical Expressions

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

CHAPTER 14 MORE CONCEPTS IN ALGEBRA

- Lesson 14-1 Algebraic Expressions and Equations: Evaluate Algebraic Expressions or Equations—pp. 440–441
- Lesson 14-17 Problem Solving Applications: Mixed Review—pp. 472–473

WORKBOOK ADDITIONAL PRACTICE

- Lesson 14-1 Algebraic Expressions and Equations—p. 156
- Lesson 14-17 Problem Solving Applications: Mixed Review—p. 172

TEACHER'S EDITION/TEACHER'S EDITION eBOOK*

- Chapter 14 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 439A–439I

DIGITAL RESOURCES*

Chapter 14 Reteach Lessons & Practice/Reteach Teacher Support

- Write and Interpret Numerical Expressions

Chapter 14 Reteach Videos

- Writing, Interpreting, and Evaluating Numerical Expressions

5.AR.OA.4 Find factor pairs and multiples within the range of 1-100 while classifying numbers as prime or composite.

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

CHAPTER 4 NUMBER THEORY AND FRACTIONS

- Lesson 4-1 Explore Prime and Composite Numbers—pp. 134–135
- Lesson 4-2 Factors, Primes, and Composites/Prime Factorization—pp. 136–137

WORKBOOK ADDITIONAL PRACTICE

- Lesson 4-1 Explore Prime and Composite Numbers—p. 41
- Lesson 4-2 Factors, Primes, and Composites—p. 41

TEACHER'S EDITION/TEACHER'S EDITION eBOOK*

- Chapter 4 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 133A–133I

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Algebraic Reasoning (AR)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 5

Operations and Algebraic Thinking (OA)

5.AR.OA.5 Generate two numerical patterns using two given rules and form ordered pairs consisting of corresponding terms from the two patterns. (Graphing on a coordinate plane).

Example Given the rule “add 3” and the starting number of 0 and given the rule “add 6” and the starting number of 0, generate terms in the resulting sequences and, in this case, observe that the terms in one sequence are twice the corresponding terms in the other sequence. Explain informally why this is so.

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CHAPTER 14 MORE CONCEPTS IN ALGEBRA

- Lesson 14-13 The Coordinate Plane—pp. 464–465
- Lesson 14-14 Function Tables—pp. 466–467
- Lesson 14-15 Functions and Coordinate Graphs—pp. 468–469

WORKBOOK INSTRUCTION & PRACTICE

- Lesson 14-13A Using Coordinate Graphs—pp. 229–230
- Lesson 14-13B Sequences—pp. 231–232
- Lesson 14-13C Compare Sequences—pp. 233–234

WORKBOOK ADDITIONAL PRACTICE

- Lesson 14-13 The Coordinate Plane—p. 168
- Lesson 14-13A Using Coordinate Graphs—p. 263
- Lesson 14-13B Sequences—p. 264
- Lesson 14-13C Compare Sequences—p. 265
- Lesson 14-14 Function Tables—p. 169
- Lesson 14-15 Functions and Coordinate Graphs—p. 170

TEACHER'S EDITION/TEACHER'S EDITION eBOOK*

- Chapter 14 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 439A–439I

DIGITAL RESOURCES*

Chapter 14 Reteach Lessons & Practice/Reteach Teacher Support

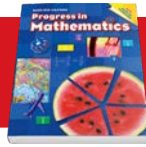
- Analyze Numerical Patterns
- Understand Points on the Coordinate Plane
- Graph Points to Represent Problem Situations

Chapter 14 Reteach Videos

- The Coordinate Plane and Representing Problem Situations

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Geometry and Measurement (GM)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 5

Geometry (G)

5.GM.G.1 Classify two-dimensional figures in a hierarchy based on properties.

Clarification Properties of two-dimensional shapes and the names of the specific shapes would include identifying the number of sides, angles, and lines of symmetry found in polygons and triangles (equilateral, isosceles, scalene).

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

SKILLS UPDATE: REVIEW OF GRADE 4 SKILLS

- Geometric Concepts—p. 12
- Identify Polygons—p. 13

CHAPTER 10 GEOMETRY

- Lesson 10-1 Measure and Draw Angles—pp. 324–325
- Lesson 10-2 Identify Angles—pp. 326–327
- Lesson 10-3 Polygons—pp. 328–329
- Lesson 10-4 Congruent and Similar Figures—pp. 330–331
- Lesson 10-5 Triangles—pp. 332–333
- Lesson 10-6 Quadrilaterals—pp. 334–335

WORKBOOK INSTRUCTION & PRACTICE

- Lesson 10-6A Classify Quadrilaterals—pp. 219–220

WORKBOOK ADDITIONAL PRACTICE

- Lesson 10-1 Measure and Draw Angles—p. 113
- Lesson 10-2 Identify Angles—p. 114
- Lesson 10-3 Polygons—p. 115
- Lesson 10-4 Congruent and Similar Figures—p. 116
- Lesson 10-5 Triangles—p. 117
- Lesson 10-6 Quadrilaterals—p. 118
- Lesson 10-6A Classify Quadrilaterals—p. 258

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- Chapter 10 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 323A–323I

DIGITAL RESOURCES*

Chapter 10 Reteach Lessons & Practice/Reteach Teacher Support

- Properties to Classify Two-Dimensional Figures

Chapter 10 Reteach Videos

- Analyze Properties to Classify Two-Dimensional Figures

OTHER DIGITAL RESOURCES*

SKILLS UPDATE

Instruction/Student Practice

- Geometric Concepts
- Identify Polygons

5.GM.G.2 Identify the x-coordinate and y-coordinate to graph and name points in the first quadrant of the coordinate plane.

Clarification In a progression, students may begin by learning about the origin in direction with the axis and how the coordinates correspond.

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CHAPTER 14 MORE CONCEPTS IN ALGEBRA

- Lesson 14-13 The Coordinate Plane—pp. 464–465

WORKBOOK INSTRUCTION & PRACTICE

- Lesson 14-13A Using Coordinate Graphs—pp. 229–230

WORKBOOK ADDITIONAL PRACTICE

- Lesson 14-13 The Coordinate Plane—p. 168
- Lesson 14-13A Using Coordinate Graphs—p. 263

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- Chapter 14 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 439A–439I

DIGITAL RESOURCES*

Chapter 14 Reteach Lessons & Practice/Reteach Teacher Support

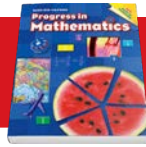
- Understand Points on the Coordinate Plane

Chapter 14 Reteach Videos

- The Coordinate Plane and Representing Problem Situations

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Geometry and Measurement (GM)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 5

Geometry (G)

5.GM.G.3 Form ordered pairs and graph points in the first quadrant on the coordinate plane to solve authentic word problems.

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CHAPTER 14 MORE CONCEPTS IN ALGEBRA

- Lesson 14-13 The Coordinate Plane—pp. 464–465
- Lesson 14-15 Functions and Coordinate Graphs—pp. 468–469

WORKBOOK INSTRUCTION & PRACTICE

- Lesson 14-13A Using Coordinate Graphs—pp. 229–230

WORKBOOK ADDITIONAL PRACTICE

- Lesson 14-13 The Coordinate Plane—p. 168
- Lesson 14-13A Using Coordinate Graphs—p. 263
- Lesson 14-15 Functions and Coordinate Graphs—p. 170

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- Chapter 14 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 439A–439I

DIGITAL RESOURCES*

- Chapter 14 Reteach Lessons & Practice/Reteach Teacher Support
- Graph Points to Represent Problem Situations
- Chapter 14 Reteach Videos
- The Coordinate Plane and Representing Problem Situations

Measurement (M)

5.GM.M.1 Generate conversions among different-sized standard measurement units within a given measurement system, both customary and metric. Use these conversions to solve multi-step, authentic word problems.

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

SKILLS UPDATE: REVIEW OF GRADE 4 SKILLS

- Customary Units of Length—p. 14
- Customary Units of Capacity and Weight—p. 15
- Metric Units of Length—p. 16
- Metric Units of Capacity and Mass—p. 17

CHAPTER 11 MEASUREMENT TOPICS

- Lesson 11-1 Relate Customary Units of Length—pp. 358–359
- Lesson 11-2 Relate Customary Units of Capacity—pp. 360–361
- Lesson 11-3 Relate Customary Units of Weight—pp. 362–363
- Lesson 11-4 Temperature—pp. 364–365
- Lesson 11-5 Units of Time—pp. 366–367
- Lesson 11-7 Compute with Customary Units—pp. 370–371
- Lesson 11-8 Problem Solving Strategy: Use More Than Step—pp. 372–373
- Lesson 11-9 Problem Solving Applications: Mixed Review—pp. 374–375

WORKBOOK ADDITIONAL PRACTICE

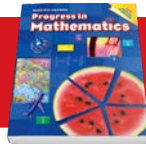
- Lesson 11-1 Relate Customary Units of Length—p. 126
- Lesson 11-2 Relate Customary Units of Capacity—p. 127
- Lesson 11-3 Relate Customary Units of Weight—p. 127
- Lesson 11-4 Temperature—p. 128
- Lesson 11-5 Units of Time—p. 129
- Lesson 11-6 Time Zones—p. 130
- Lesson 11-7 Compute with Customary Units—p. 131
- Lesson 11-8 Problem Solving Strategy: Use More Than Step—p. 132
- Lesson 11-9 Problem Solving Applications: Mixed Review—p. 133

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Geometry and Measurement (GM)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 5

Measurement (M)

continued

- 5.GM.M.1** Generate conversions among different-sized standard measurement units within a given measurement system, both customary and metric. Use these conversions to solve multi-step, authentic word problems.

continued

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- 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
- Customary Measurement Units
- Chapter 11 Reteach Videos
- Customary Measurement Units

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

CHAPTER 12 METRIC MEASUREMENT, AREA, AND VOLUME

- Lesson 12-1 Metric Measurement—pp. 382–383
- Lesson 12-2 Relate Metric Units of Length—pp. 384–385
- Lesson 12-3 Relate Metric Units of Capacity—pp. 386–387
- Lesson 12-4 Relate Metric Units of Mass—pp. 388–389
- Lesson 12-10 Cubic Measure—pp. 400–401

WORKBOOK ADDITIONAL PRACTICE

- Lesson 12-1 Metric Measurement—p. 134
- Lesson 12-2 Relate Metric Units of Length—p. 135
- Lesson 12-3 Relate Metric Units of Capacity—p. 136
- Lesson 12-4 Relate Metric Units of Mass—p. 136
- Lesson 12-10 Cubic Measure—p. 142

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

DIGITAL RESOURCES*

- Chapter 12 Reteach Lessons & Practice/Reteach Teacher Support
- Convert Metric Measurement Units
- Chapter 12 Reteach Videos
- Convert Metric Measurement Units

OTHER DIGITAL RESOURCES*

SKILLS UPDATE

- Instruction/Student Practice
- Customary Units of Length
 - Customary Units of Capacity and Weight
 - Metric Units of Length
 - Metric Units of Capacity and Mass

- 5.GM.M.2** Find the area and perimeter of a rectangle, including connected rectangular figures, with fractional side lengths.

continued

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CHAPTER 10 GEOMETRY

- Lesson 10-7 Perimeter—pp. 336–337

WORKBOOK ADDITIONAL PRACTICE

- Lesson 10-7 Perimeter—p. 119

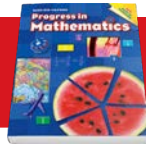
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Geometry and Measurement (GM)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 5

Measurement (M)

continued

- 5.GM.M.2** Find the area and perimeter of a rectangle, including connected rectangular figures, with fractional side lengths.

continued

CHAPTER 12 METRIC MEASUREMENT, AREA, AND VOLUME

- Lesson 12-5 Square Measure—pp. 390–391
- Lesson 12-6 Areas of Rectangles and Squares—pp. 392–393
- Lesson 12-7 Areas of Parallelograms and Triangles—pp. 394–395

WORKBOOK INSTRUCTION & PRACTICE

- Lesson 12-5A Find Areas of Rectangles and Squares—pp. 221–222

WORKBOOK ADDITIONAL PRACTICE

- Lesson 12-5 Square Measure—p. 137
- Lesson 12-5A Find Areas of Rectangles and Squares—p. 259
- Lesson 12-6 Areas of Rectangles and Squares—p. 138
- Lesson 12-7 Areas of Parallelograms and Triangles—p. 139

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

DIGITAL RESOURCES*

Chapter 12 Reteach Lessons & Practice/Reteach Teacher Support

- Find Areas of Rectangles: Tile and Multiply (fractional side lengths)

Chapter 12 Reteach Videos

- Find Areas of Rectangles: Tile and Multiply

- 5.GM.M.3** Recognize volume as an attribute of rectangular prisms and measure volume by counting unit cubes.

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CHAPTER 12 METRIC MEASUREMENT, AREA, AND VOLUME

- Lesson 12-11 Volume—pp. 402–403
- Lesson 12-12 Estimate Volume—pp. 404–405

WORKBOOK INSTRUCTION & PRACTICE

- Lesson 12-11A Find Volume—pp. 223–224
- Lesson 12-11B Separate Solid Figures—pp. 225–226

WORKBOOK ADDITIONAL PRACTICE

- Lesson 12-11 Volume—p. 143
- Lesson 12-11A Find Volume—p. 260
- Lesson 12-11B Separate Solid Figures—p. 261
- Lesson 12-12 Estimate Volume—p. 144

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DIGITAL RESOURCES*

Chapter 12 Reteach Lessons & Practice/Reteach Teacher Support

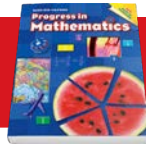
- Find Volume: Relate Packing of Unit Cubes to Multiplying
- Find Volume: Use the Associative Property
- Problem Solving: Apply Volume Formulas for Prisms
- Problem Solving: Decompose Figures to Find Volume

Chapter 12 Reteach Videos

- Understanding and Measuring Volume
- Finding Volume: Using Unit Cubes and the Associative Property

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Data, Probability, and Statistics (DPS)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 5

Data (D)

5.DPS.D.1 Generate data and create line plots to display a data set of fractions of a unit ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$). Use grade-level operations for fractions to solve problems involving information presented in line plots.

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CHAPTER 7 STATISTICS AND PROBABILITY

- Lesson 7-4 Collect and Organize Data—pp. 244–245
- Lesson 7-7 Line Plots—pp. 250–251

WORKBOOK ADDITIONAL PRACTICE

- Lesson 7-4 Collect and Organize Data—p. 83
- Lesson 7-7 Line Plots—p. 85

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- Chapter 7 Overview/Lesson Planner/Assessment Options/English Language Learners/Differentiated Instruction—TE pp. 237A–237I

DIGITAL RESOURCES*

Chapter 7 Reteach Lessons & Practice/Reteach Teacher Support

- Problem Solving: Use Line Plots (fractions of a unit, $\frac{1}{8}$)

CHAPTER 12 METRIC MEASUREMENT, AREA, AND VOLUME

WORKBOOK INSTRUCTION & PRACTICE

- Lesson 12-12A Line Plots (fractions of a unit)—pp. 227–228

WORKBOOK ADDITIONAL PRACTICE

- Lesson 12-12A Line Plots (fractions of a unit)—p. 262

DIGITAL RESOURCES*

Chapter 12 Reteach Lessons & Practice/Reteach Teacher Support

- Problem Solving: Use Line Plots

5.DPS.D.2 Utilize graphs and diagrams to represent, analyze, and solve authentic word problems using information presented in one or more tables or line plots including whole numbers, fractions, and decimals.

Clarification The DPS.D category in K-4 describes graphs and tables that students are expected to learn. 5.DPS.D.2 encompasses all graphs, and the problem now dictates which visual representation students should use.

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SKILLS UPDATE: REVIEW OF GRADE 4 SKILLS

- Make Pictographs—p. 18
- Make Bar Graphs—p. 19

CHAPTER 7 STATISTICS AND PROBABILITY

- Lesson 7-5 Range, Median, Mean and Mode—pp. 246–247
- Lesson 7-6 Graphing Sense—pp. 248–249
- Lesson 7-7 Line Plots—pp. 250–251
- Lesson 7-8 Histograms—pp. 252–253
- Lesson 7-9 Make Line Graphs—pp. 254–255
- Lesson 7-10 Interpret Circle Graphs—pp. 256–257
- Lesson 7-11 Problem Solving Strategy: Use a Model/Diagram—pp. 258–259
- Lesson 7-12 Problem Solving Applications: Mixed Review—pp. 260–261

WORKBOOK ADDITIONAL PRACTICE

- Lesson 7-5 Range, Median, Mean and Mode—p. 83
- Lesson 7-6 Graphing Sense—p. 84
- Lesson 7-7 Line Plots—p. 85
- Lesson 7-8 Histograms—p. 86
- Lesson 7-9 Make Line Graphs—p. 87
- Lesson 7-10 Interpret Circle Graphs—p. 88
- Lesson 7-11 Problem Solving Strategy: Use a Model/Diagram—p. 89
- Lesson 7-12 Problem Solving Applications: Mixed Review—p. 90

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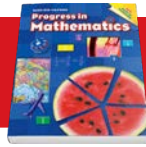
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Geometry and Measurement (GM)

NORTH DAKOTA MATHEMATICS STANDARDS

PROGRESS IN MATHEMATICS — GRADE 5

Data (D)

continued

5.DPS.D.2 Utilize graphs and diagrams to represent, analyze, and solve authentic word problems using information presented in one or more tables or line plots including whole numbers, fractions, and decimals.

Clarification The DPS.D category in K-4 describes graphs and tables that students are expected to learn. 5.DPS.D.2 encompasses all graphs, and the problem now dictates which visual representation students should use.

continued

OTHER DIGITAL RESOURCES*

SKILLS UPDATE

Instruction/Student Practice

- Make Pictographs
- Make Bar Graphs

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