

**Grade Four**  
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**Correlations with West Virginia**  
**Instructional Math Goals and Objectives**

The fourth grade objectives emphasize critical thinking skills to create independent problem solvers who possess a personalized set of skills and strategies to solve problems in everyday life. Concepts which are stressed include: multiplication and division of two and three digit numbers, construction and description of objects from different perspectives, estimation, reading temperatures, description of possible outcomes in a given situation, use of calculators and computers, and describing mathematical relationships and patterns in other content areas and the real world. Additional concepts include adding and subtracting like fractions, multiplication of fractions, and adding and subtracting decimals.

**Number Theory and Number Sense**

**4.1<sub>5</sub>** compare and order two or more whole numbers through 1,000,000 **Appetizers 1 B; Main Dish Objective 1 (Number Concepts) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**

**4.2<sub>5,6</sub>** read, name, and write nine digit numbers and identify place value for each digit utilizing standard and expanded form **Appetizers 1; Main Dish Objective 1 (Number Concepts); Applications; Final Tests; Reasonableness Problems; Journal Topics**

**4.3<sub>6</sub>** identify 1,000 more and 1,000 less than a given number

**4.4<sub>3,5,6,7,8</sub>** estimate to the nearest 1,000 using front-end digit and rounding, compatible numbers, and reasonableness **Appetizers 10 A, B, and C; Main Dish Objective 1 (Number Concepts) Lessons 1, 2, and 3; Application; Final Tests; Reasonableness Problems; Journal Topics**

**4.5<sub>2,3</sub>** identify odd and even numbers **Appetizers 1 F; Main Dish Objective 1 (Number Concepts) Lesson 6; Applications; Final Tests; Reasonableness Problems; Journal Topics**

**Fractions and Decimals**

**4.6<sub>1,2,3,5</sub>** identify fraction models that are part of a whole or part of a group **Appetizers 1 G; Main Dish Objective 1 (Number Concepts) Lesson 7; Applications; Final Tests; Reasonableness Problems; Journal Topics**

**4.7<sub>3,5</sub>** compare and order fractions with like and unlike denominators **Appetizers 1 G; Main Dish Objective 1 (Number Concepts) Lesson 7; Applications; Final Tests; Reasonableness Problems; Journal Topics**

**4.8<sub>5</sub>** add and subtract like and unlike fractions using concrete materials and paper and pencil **Appetizers 6 D; 7 D; Main Dish Objective 6 (Addition) Lesson 4; Objective (Subtraction) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics**

**4.9<sub>5</sub>** add and subtract fractions and reduce to lowest terms

**4.10<sub>5</sub>** given a fraction model: read and write the fraction or mixed number, change an improper fraction to a mixed number, and change a mixed number to an improper fraction

**4.11<sub>5</sub>** read, write, compare, order, and identify place value and pictorial representations of decimals expressed as thousandths (hundredths) **Appetizers 1 E; Main Dish Objective 1 (Number Concepts) Lesson 5; Applications; Final Tests; Reasonableness Problems; Journal Topics**

**4.12** identify and represent equivalent fractions and relate fractions to decimals using concrete objects

**4.13** change a fraction into a decimal using a calculator

**4.14** add and subtract decimals to tenths, hundredths, and thousandths **Appetizers 6 C; 7; Main Dish Objective 6 (Addition) Lesson 3; Objective 7 (Subtraction); Applications; Final Tests; Reasonableness Problems; Journal Topics**

**4.15** round decimals to the nearest whole, tenth, and hundredth **Appetizers 1; Main Dish Objective 1 (Number Concepts); Applications; Final Tests; Reasonableness Problems; Journal Topics**

**4.16** solve problems using fractions and decimals **Appetizers 11; 12 A; Main Dish Objective 11 (Solution Strategies); Objective 12 (Mathematical Representation) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics**

### **Whole Number Operations and Computations**

**4.17<sub>5, 6, 7, 8</sub>** add and subtract two, three, and four digit whole numbers and money with and without regrouping **Appetizers 6; 7 A, B, and C; Main Dish Objective 6 (Addition); Objective 7 (Subtraction) Lessons 1, 2, and 3; Applications; Final Tests; Reasonableness Problems; Journal Topics**

**4.18<sub>2, 3</sub>** choose the appropriate method to solve a problem: paper/pencil, mental math, estimation, and calculators **Appetizers 11 A and B; Main Dish Objective 11 (Solution Strategies) Lessons 1 and 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**

**4.19<sub>3, 5</sub>** use concrete materials to demonstrate and identify the associative property of addition and multiplication, the identity element and commutative property of multiplication (fact families) **Appetizers 2 A; Main Dish Objective 2 (Mathematical Relations) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics**

**4.20<sub>6</sub>** multiply two and three digit numbers by two and three digit numbers with and without regrouping **Appetizers 8 B; Main Dish Objective 8 (Multiplication) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**

**4.21<sub>6</sub>** divide two and three digit numbers by two and three digit numbers with and without regrouping **Appetizers 9 C; Main Dish Objective 9 (Division) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics**

**4.22** introduce and use the order of operations (e.g., parenthesis, multiplication/division, and addition/subtraction) **Appetizers 2 A; Main Dish Objective 2 (Mathematical Relations) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics**

**4.23** round to the nearest dollar, hundredths, and thousandths **Appetizers 1 D; 10 B; Main Dish Objective 1 (Number Concepts) Lesson 4; Objective 10 (Estimation) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**

### **Patterns and Relationships**

**4.24<sub>K, 1, 2, 3, 5, 6, 7, 8</sub>** solve problems involving pattern identification and completion of patterns

**4.25** describe and represent relationships with tables, graphs, and rules **Appetizers 5 B; Main Dish Objective 5 (Probability/Statistics) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**

### **Probability and Statistics**

**4.26** understand and reason about the use and misuse of statistics in our society. Given certain situations and reported results, identify faulty arguments or misleading representations of data **Appetizers 5 A; Main Dish Objective 5 (Probability/Statistics) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics**

**4.27** as a part of a problem solving situation, conduct a survey, organize data, and display the findings on a bar, line, and circle graph **Appetizers 5 B; Main Dish Objective 5 (Probability/Statistics) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**

4.28<sub>3, 5</sub> collect, organize, display, read, and interpret data from a problem solving situation in line graphs, bar graphs, tally charts, and tables with scale increments of one or greater than one **Appetizers 5 B; Main Dish Objective 5 (Probability/Statistics) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**

4.29<sub>5</sub> list all possible outcomes for an experiment using a tree diagram (e.g., tournaments and roll the dice)

4.30<sub>5, 6, 7</sub> determine mean, median, mode, and range from collected data

4.31<sub>3, 5, 6, 7</sub> identify coordinate locations **Appetizers 2 D; Main Dish Objective 2 (Mathematical Relations) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics**

4.32<sub>1, 2, 3</sub> identify plane figures and their components (sides and vertices) **Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics**

### Geometry and Spatial Sense

4.33<sub>5</sub> construct, label, compare, and classify acute, right, and obtuse angles **Appetizers 3 D; Main Dish Objective 3 (Geometry) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics**

4.34 compare and contrast quadrilaterals (rectangles, square, parallelogram, trapezoid, and rhombus) **Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics**

4.35 identify and construct lines which intersect, are parallel, and are perpendicular

4.36<sub>6, 7</sub> using a compass, construct a circle, and draw and label the parts of a circle (center, radius, chord, and diameter)

4.37 describe three dimensional objects from a different perspectives (e.g., view of face, view of vertex) **Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics**

4.38 model and use a protractor for measuring angles **Appetizers 3 D; Main Dish Objective 3 (Geometry) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics**

4.39<sub>2, 3, 5, 6, 7, 8, 9, 10, 11</sub> identify rotations and reflections **Appetizers 3 C; Main Dish Objective 3 (Geometry) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics**

**4.40<sub>1, 2, 3</sub> identify symmetry Appetizers 3 B; Main Dish Objective 3 (Geometry) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics**

### **Measurement**

**4.41<sub>2, 3, 5, 6, 7</sub> compare, estimate, and measure length using customary and metric units Appetizers 4 B, C, and D; Main Dish Objective 4 (Measurement) Lessons 2, 3, and Applications; Final Tests; Reasonableness Problems; Journal Topics**

**4.42<sub>5</sub> solve problems involving perimeter, area, volume, and surface area Appetizers 4 G and H; 11 E; Main Dish Objective 4 (Measurement) Lessons 7 and 8; Objective 11 (Solution Strategies) Lesson 5; Applications; Final Tests; Reasonableness Problems; Journal Topics**

**4.43<sub>3, 5, 6</sub> compare areas of figures**

**4.44 compare inches and centimeters, quart and liter, yard and meter, pound and kilogram Appetizers 4 B, C, E, and F; Main Dish Objective 4 (Measurement) Lessons 2, 3, 5, and 6; Applications; Final Tests; Reasonableness Problems; Journal Topics**

**4.45 identify the major United States time zones, and their relationships to each other**

**4.46<sub>2, 3, 5, 6, 7, 8</sub> calculate elapsed time Appetizers 4 A; Main Dish Objective 4 (Measurement) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics**

**4.47 create and solve problems involving addition, subtraction, multiplication, and division of money amounts using various computational methods such as calculations, paper/pencil, mental computation and estimation Appetizers 11 A, B, C, D, and E; Main Dish Objective 11 (Solution Strategies) Lessons 1, 2, 3, 4, and 5; Applications; Final Tests; Reasonableness Problems; Journal Topics**

**4.48<sub>3</sub> count coins and bills and identify correct change Appetizers 6 and 7; Main Dish Objective 6 (Addition); Objective 7 (Subtraction); Applications; Final Tests; Reasonableness Problems; Journal Topics**

**4.49<sub>1, 2, 3, 5, 6</sub> read scales of length, temperature, weight, or capacity and select appropriate units Appetizers 4 A; Main Dish Objective 4 (Measurement) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics**

### **Computer and Technology**

**4.50 use appropriate software to practice and master fourth grade instructional objectives in mathematics CD Rom Doggie Bags (games and critical thinking activities to reinforce objectives)**

- 4.51 practice proper finger placement for all keys on a keyboard
- 4.52 identify ways technology is used to access information
- 4.53 use a calculator to change a fraction into a decimal
- 4.54 use a calculator to solve operations with money
- 4.55 demonstrate the understanding that the violation of copyright law is a crime
- 4.56 use graphing software to construct tables, bar, line, and circle graphs
- 4.57 use a calculator to find the mean, mode, and range of collected data