

**Grade Four**  
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**Correlations with Ohio**  
**Instructional Math Goals and Objectives**

**Strand One**

The student will be able to . . .

1. explore and describe in words simple and complex patterns in nature, art, and poetry. **Journal Topics, All Objectives**
2. determine the rule and identify missing numbers in a sequence of numbers or a table of number pairs related by combinations of addition, subtraction, multiplication, and division. **Appetizers, Main Dishes, Objectives 1 F Odds/Evens, 2 B Patterns, Final Test, Reasonableness Problems, Journal Topics**

**Strand Two**

The student will be able to . . .

1. use more than one strategy to solve a given problem. **Appetizers, Main Dishes, Objectives 11 A Formulate Strategies, 12 A Equation, Final Test, Reasonableness Problems, Journal Topics**
2. use a single strategy to solve different kinds of problems. **Appetizers, Main Dishes, Objectives 11 A Formulate Strategies, 12 A Equation, Final Test, Reasonableness Problems, Journal Topics**
3. make and use a table to record and sort information. **Appetizers, Main Dishes, Objectives 5 B Possible Outcomes, 12 B Graphs/Charts, Final Test, Reasonableness Problems, Journal Topics**
4. select appropriate notation and methods for symbolizing the problem statement and the solution process. **Appetizers, Main Dishes, Objectives 11 A Formulate Strategies, 12 A Equation, Final Test, Reasonableness Problems, Journal Topics**
5. extend the application of previously learned strategies. **All Objectives**
6. validate solution(s) to a problem. **Appetizers, Main Dishes, Objective 13 B Determine Reasonableness, Final Test, Reasonableness Problems, Journal Topics**
7. generalize a problem-solving situation to other cases. **Appetizers, Main Dishes, Objectives 11 A Formulate Strategies, 11 B Determine Strategies, Final Test, Reasonableness Problems, Journal Topics**

**Strand Three**

The student will be able to . . .

1. decompose numbers into factors, using objects and translate using symbols. **Appetizers, Main Dishes, Objective 8 A Multiply, Final Test, Reasonableness Problems, Journal Topics**
2. identify prime and composite numbers.
3. use physical models to represent fractions greater than one. **Appetizers, Main Dishes, Objective 1 G Recognize Fractions, Final Test, Reasonableness Problems, Journal Topics**
4. round fractions to zero, one-half, one, etc.
5. round numbers to the nearest ten and hundred and beyond. **Appetizers, Main Dishes, Objective 1 D Round Numbers, Final Test, Reasonableness Problems, Journal Topics**
6. order fractions using symbols. **Appetizers, Main Dishes, Objective 1 G Recognize Fractions, Final Test, Reasonableness Problems, Journal Topics**
7. find equivalent fractions with concrete materials and symbolically. **Appetizers, Main Dishes, Objective 1 G Recognize Fractions, Final Test, Reasonableness Problems, Journal Topics**
8. add and subtract fractions with concrete materials and symbolically. **Appetizers, Main Dishes, Objectives 6 D Add Fractions, 7 D Subtract Fractions, Final Test, Reasonableness Problems, Journal Topics**
9. develop concepts of tenths and hundredths using symbols. **Appetizers, Main Dishes, Objective 1 E Recognize Place Value, Final Test, Reasonableness Problems, Journal Topics**
10. add and subtract decimals. **Appetizers, Main Dishes, Objectives 6 C Add Decimals, 7 C Subtract Decimals, Final Test, Reasonableness Problems, Journal Topics**
11. multiply and divide whole numbers fluently. **Appetizers, Main Dishes, Objectives 8 A Multiply, 8 B Multiply Two Digits, 9 C Use Division with and without Remainders, Final Test, Reasonableness Problems, Journal Topics**
12. develop concepts of place value to include numbers through millions. **Appetizers, Main Dishes, Objective 1 C Place Value, Final Test, Reasonableness Problems, Journal Topics**
13. compare and order numbers with any number of digits. **Appetizers, Main Dishes, Objective 1 B Compare Numbers, Final Test, Reasonableness Problems, Journal Topics**
14. relate multiplication and division statements to each other. **Appetizers, Main Dishes, Objective 2 A Inverse Operations, Final Test, Reasonableness Problems, Journal Topics**

#### **Strand Four**

The student will be able to . . .

1. investigate reflections, rotations, and translations of geometric figures

- using concrete objects. **Appetizers, Main Dishes, Objective 3 C Translation, Final Test, Reasonableness Problems, Journal Topics**
2. identify parallel lines, perpendicular lines, and right angles in geometric figures and the environment
  3. build models that illustrate intersecting lines, parallel lines, perpendicular lines, and right angles
  4. determine properties of two-dimensional figures and compare shapes according to their characterizing properties. **Appetizers, Main Dishes, Objective 3 A Two and Three Dimensional Figures, Final Test, Reasonableness Problems, Journal Topics**

### Strand Five

The student will be able to . . .

1. use and understand the language of logic in describing the inverse relationships between addition and subtraction, multiplication, and division. **Appetizers, Main Dishes, Objective 2 A Inverse Operations, Final Test, Reasonableness Problems, Journal Topics**
2. use variables in mathematical expressions to represent problem situations. **Appetizers, Main Dishes, Objective 2 A Inverse Operations, Final Test, Reasonableness Problems, Journal Topics**
3. symbolize a keying sequence on a calculator with arithmetic logic to execute the computation of an arithmetic phrase and predict the display as each key is pressed. **Appetizers, Main Dishes, Objective 2 B Patterns, Final Test, Reasonableness Problems, Journal Topics**
4. explore using variables to generalize arithmetic statements.
5. explore tables that describe arithmetic relationships.
6. understand the use of letters in statements such as  $a/b = 4$  or  $c/2 = d$  and find a when b is given, etc.

### Strand Six

The student will be able to . . .

1. choose an appropriate unit and measure lengths, capacities, and weights in U.S. standard and metric units. **Appetizers, Main Dishes, Objective 4 A Units of Time, Final Test, Reasonableness Problems, Journal Topics**
2. measure and determine perimeters and areas of simple straight line figures and regions without using formulas. **Appetizers, Main Dishes, Objective 4 G Perimeter, Final Test, Reasonableness Problems, Journal Topics**
3. make reasonable estimations of lengths under 10 meters.
4. read temperature measurement in °C and °F. **Appetizers, Main Dishes, Objective 4 A Units of Time, Final Test, Reasonableness Problems,**

### **Journal Topics**

5. relate the number of units that measure an object to the size of the unit as well as to the size of the object. **Appetizers, Main Dishes, Objectives 4 B Customary Units, 4 C Metric Units, 4 D Apply Measurement Concepts, Final Test, Reasonableness Problems, Journal Topics**
6. make change using coins and bills. **Appetizers, Main Dishes, Objectives 6 A Rename, 7 C Subtract with Regrouping, 8 C Multiply Money, 10 Estimation, Final Test, Reasonableness Problems, Journal Topics**
7. use mental, paper-and-pencil, and physical strategies to determine time elapsed. **Appetizers, Main Dishes, Objective 4 A Units of Time, Final Test, Reasonableness Problems, Journal Topics**

### **Strand Seven**

The student will be able to . . .

1. perform and extend the objectives listed in previous grades. **All Objectives**
2. round to find the approximate sum or difference of numbers and compare the result to that obtained by using front-end digits. **Appetizers, Main Dishes, Objective 10 A Estimate, Final Test, Reasonableness Problems, Journal Topics**
3. explore estimates of sums and differences and determine whether they are greater than or less than the exact sum or difference. **Appetizers, Main Dishes, Objective 10 Estimation, Final Test, Reasonableness Problems, Journal Topics**
4. explore estimates of products and quotients and determine whether they are greater or less than products or quotients found by a calculator. **Appetizers, Main Dishes, Objective 10 Estimation, Final Test, Reasonableness Problems, Journal Topics**
5. use compatible numbers to estimate in division. **Appetizers, Main Dishes, Objective 10 C Estimate Compatible Numbers, Final Test, Reasonableness Problems, Journal Topics**
6. use estimate to determine the reasonableness of results in problem solving. **Appetizers, Main Dishes, Objective 10 Estimation, 13 Reasonableness, Final Test, Reasonableness Problems, Journal Topics**
7. use compensatory numbers in adding.
8. look for combinations that make ten or one hundred. **Appetizers, Main Dishes, Objective 1 C Place Value, Final Test, Reasonableness Problems, Journal Topics**
9. explore combinations of quarters and relate to sums and differences with 25.
10. use left-to-right multiplication and the distributive property to find an exact answer without paper and pencil. **Appetizers, Main Dishes,**

**Objective 2 A Inverse Operations, Final Test, Reasonableness Problems,  
Journal Topics**

**Strand Eight**

The student will be able to . . .

1. collect data and create a picture or bar graph representing the data.  
**Appetizers, Main Dishes, Objective 5 B Graphs, Final Test, Reasonableness Problems, Journal Topics**
2. make predictions and modify them as additional data are collected.  
**Appetizers, Main Dishes, Objective 5 B Graphs, Final Test, Reasonableness Problems, Journal Topics**
3. read and interpret diagrams and time lines. **Appetizers, Main Dishes, Objectives 2 C Number Lines, 5 B Graphs, Final Test, Reasonableness Problems, Journal Topics**
4. explore picture and bar graphs by making identification, comparisons, and predictions, and use them to solve application problems.  
**Appetizers, Main Dishes, Objectives 5 B Graphs, 12 B Graphs/Charts, Final Test, Reasonableness Problems, Journal Topics**
5. investigate, display, and record all possible arrangements of a given set of events.
6. find simple experimental probabilities. **Appetizers, Main Dishes, Objective 5 A Possible Outcomes, Final Test, Reasonableness Problems, Journal Topics**

