

Grade Five
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Correlations with Ohio
Instructional Reading Goals and Objectives

Strand One

The student will be able to . . .

1. investigate patterns that occurs when changing numerators and denominators in equivalent fractions and describe these patterns verbally. **Appetizers, Main Dishes, Objectives 1 C Fractional Relationships, 1 D Recognize Fractions, Final Test, Reasonableness Problems, Journal Topics**
2. investigate the patterns of digits formed when fractions are changed to decimal form. **Appetizers, Main Dishes, Objectives 1 B Compare Numbers, 6 D Convert Decimals to Fractions, Final Test, Reasonableness Problems, Journal Topics**
3. use patterns to explore the rules for divisibility.
4. investigate patterns formed by powers of ten using exponents and expanded form of numbers.
5. explore methods for finding the n^{th} term of a simple sequence involving one operation and verbalize a procedure. **Appetizers, Main Dishes, Objective 2 A Rational Numbers, Final Test, Reasonableness Problems, Journal Topics**
6. graph ordered pairs. **Appetizers, Main Dishes, Objective 2 D Ordered Pairs, Final Test, Reasonableness Problems, Journal Topics**
7. find missing terms of a sequence using powers.
8. explore and describe in words simple and complex patterns in music and science. **Appetizers, Main Dishes, Objective 2 Mathematical Relations, Final Test, Reasonableness Problems, Journal Topics**

Strand Two

The student will be able to . . .

1. read a problem carefully and restate it without reference to the original problem. **Appetizers, Main Dishes, Objective 1 C Fractional Relationships, Final Test, Reasonableness Problems, Journal Topics**
2. read a problem carefully and identify subgoals that need to be attained in order to solve the problem. **Appetizers, Main Dishes, Objective 11 A Basic Strategies, Final Test, Reasonableness Problems, Journal Topics**
3. expand the repertoire of appropriate notations and methods for symbolizing a problem statement and the solution process. **Appetizers, Main Dishes, Objective 12 A Solution Sentences, Final Test, Reasonableness Problems, Journal Topics**

4. extend the application of previously learned strategies. **Appetizers, Main Dishes, Objectives 11 A Basic Strategies, 11 B Geometric Strategies, 11 C Similarity/Congruence/Symmetry, 11 D Probability and Statistics, Final Test, Reasonableness Problems, Journal Topics**
5. validate and generalize solutions to problems. **Appetizers, Main Dishes, Objective 11 A Basic Strategies, Final Test, Reasonableness Problems, Journal Topics**

Strand Three

The student will be able to . . .

1. decompose numbers into factors , including prime factored form. **Appetizers, Main Dishes, Objective 1 A Place Value, Final Test, Reasonableness Problems, Journal Topics**
2. use the long division algorithm. **Appetizers, Main Dishes, Objective 9 A Division, Final Test, Reasonableness Problems, Journal Topics**
3. multiply and divide decimals. **Appetizers, Main Dishes, Objective 8 D Multiply Money, Final Test, Reasonableness Problems, Journal Topics**
4. find equivalent fractions. **Appetizers, Main Dishes, Objectives 1 C Fractional Relationships, 6 E Review Fractions, 6 G Equivalent Fractions, Final Test, Reasonableness Problems, Journal Topics**
5. add and subtract fractions. **Appetizers, Main Dishes, Objectives 6 C Add Decimals, 7 C Subtract Fractions, Final Test, Reasonableness Problems, Journal Topics**
6. order combinations of whole numbers, fractions, and decimals using the symbols $<$, \leq , $>$, \geq , and $=$ and by placing them on the number line. **Appetizers, Main Dishes, Objectives 1 A Place Value, 2 C Number Line, Final Test, Reasonableness Problems, Journal Topics**
7. explore order of operations relative to calculators with arithmetic and algebraic logic.
8. explore and use the idea of ratio relative to scaling. **Appetizers, Main Dishes, Objective 5 D Probability with Fractions, Final Test, Reasonableness Problems, Journal Topics**
9. explore the idea of square and square root in the context of area of squares.
10. round, as appropriate to a problem situation, to the nearest thousand, hundred, ten, one, tenth, or hundredth. **Appetizers, Main Dishes, Objectives 1 E Round Decimals, 10 B Addition/Subtraction Rounding, 10 F Multiplication Rounding, Final Test, Reasonableness Problems, Journal Topics**
11. explain in words the role of 0 and 1 as identify elements for addition and multiplication, respectively. **Appetizers, Main Dishes, Objective 8 A 2 digit Multiplication, Final Test, Reasonableness Problems, Journal Topics**

12. explain in words why order does not make a difference for addition and multiplication, but does for subtraction and division. **Appetizers, Main Dishes, Objectives 2 A Rational Number, 2 B Patterns, Final Test, Reasonableness Problems, Journal Topics**

Strand Four

The student will be able to . . .

1. compare and contrast angles in relation to right angles.
2. construct circles with a given center and/or a given radius. **Appetizers, Main Dishes, Objective 11 B Geometric Strategies, Final Test, Reasonableness Problems, Journal Topics**
3. encounter and use appropriate vocabulary relative to circles. **Appetizers, Main Dishes, Objective 11 B Geometric Strategies, Final Test, Reasonableness Problems, Journal Topics**
4. build models of previously encountered shapes and figures and describe the process in words. **Appetizers, Main Dishes, Objective 3 Geometric Properties/Relationships, Final Test, Reasonableness Problems, Journal Topics**
5. explore concepts of similarity by enlarging shapes with pattern blocks, geoboards, and computer graphics. **Appetizers, Main Dishes, Objective 3 D Similarity/Congruence/Symmetry, Final Test, Reasonableness Problems, Journal Topics**
6. explore patterns that result from combinations of reflections, rotations, and translations of geometric figures. **Appetizers, Main Dishes, Objective 3 C Translations/Reflections/Rotations, Final Test, Reasonableness Problems, Journal Topics**

Strand Four

The student will be able to . . .

1. symbolize a keying sequence on a calculator with algebraic logic to execute the computation of an arithmetic phrase and predict the display as each key is pressed.
2. explain in words differences between calculators with arithmetic logic and algebraic logic.
3. use variables to describe arithmetic processes.
4. interpret tables that describe problem situations. **Appetizers, Main Dishes, Objectives 2 D Ordered Pairs, 5 B Analyze Data, Final Test, Reasonableness Problems, Journal Topics**

Strand Six

The student will be able to . . .

1. choose an appropriate unit and measure lengths, widths, or capacities to a specified degree of precision in U.S. standard or metric measurement. **Appetizers, Main Dishes, Objective 4 A Solve Problems, Final Test, Reasonableness Problems, Journal Topics**
2. convert, compare, and compute with common units of measure within the same measurement system. **Appetizers, Main Dishes, Objectives 4 A Solve Problems, 4 B Convert Customary Units, 4 C Convert Metric Units, Final Test, Reasonableness Problems, Journal Topics**
3. determine what to measure and measure in order to determine perimeters, areas, and volumes of simple shapes and solids. **Appetizers, Main Dishes, Objectives 4 A Solve Problems, 4 B Convert Customary Units, 4 C Convert Metric Units, Final Test, Reasonableness Problems, Journal Topics**
4. make reasonable estimates of lengths, weights, and capacities. **Appetizers, Main Dishes, Objectives 10 Estimation, 13 Reasonableness, Final Test, Reasonableness Problems, Journal Topics**

Strand Seven

The student will be able to . . .

1. perform and extend the objectives listed in previous grades. **Appetizers, Main Dishes, All Objectives, Final Test, Reasonableness Problems, Journal Topics**
2. use compatible numbers to estimate in addition. **Appetizers, Main Dishes, Objective 10 C Compatible Numbers, Final Test, Reasonableness Problems, Journal Topics**
3. round fractions to 0, $\frac{1}{2}$, and 1 and use these values to estimate sums and differences of fractions.
4. round mixed numbers to the nearest whole number to estimate sums and differences for mixed numbers.
5. use front-end digit and rounding strategies to estimating sums and differences of decimals. **Appetizers, Main Dishes, Objectives 1 E Round Decimals, 10 A Front-end Digits, Final Test, Reasonableness Problems, Journal Topics**
6. use compatible numbers to add or subtract mentally. **Appetizers, Main Dishes, Objective 10 C Compatible Numbers, Final Test, Reasonableness Problems, Journal Topics**
7. halve and double factors to find the product.
8. use place value and trailing zeros to mentally divide when the known numbers are multiples of powers of 10.

Strand Eight

The student will be able to . . .

1. explore the effect of changing scales on bar graphs.
2. select a scale and create a line graph.
3. identify the ordered pair for a point on a labeled grid. **Appetizers, Main Dishes, Objective 2 D Ordered Pairs, Final Test, Reasonableness Problems, Journal Topics**
4. identify a direction, distance, and/or location using a political map containing a key, a scale, and a compass.
5. explore the concept of average and calculate the arithmetic mean of a given set of numbers. **Appetizers, Main Dishes, Objective 5 E Means/Medians/Modes, Final Test, Reasonableness Problems, Journal Topics**
6. determine experimental and theoretical probabilities. **Appetizers, Main Dishes, Objectives 5 A Determine Outcomes, 5 C Counting Arrangements, 5 D Probabilities with Fractions, Final Test, Reasonableness Problems, Journal Topics**
7. make predictions based on experimental or theoretical probabilities. **Appetizers, Main Dishes, Objectives 5 A Determine Outcomes, 5 C Counting Arrangements, 5 D Probabilities with Fractions, Final Test, Reasonableness Problems, Journal Topics**