## PURPOSEFUL DESIGN PUBLICATIONS

## Elementary Mathematics Series Scope and Sequence



PO Box 65130
Colorado Springs, CO 80962-5130
800.367.0798
www.purposefuldesign.com

|  | K | 1 | 2 | 3 | 4 | 5 | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| I. PATTERNS |  |  |  |  |  |  |  |
| A. Sorting |  |  |  |  |  |  |  |
| Identifying attributes | $\bullet$ | - | - |  |  |  |  |
| Sorting objects by 2 or more attributes |  | - | - |  |  |  |  |
| Sorting objects into groups | - | $\bullet$ | - |  |  |  |  |
| Identifying attributes that distinguish a set | - | - |  |  |  |  |  |
| Identifying objects that do not belong in a set | - | - | - |  |  |  |  |
| Identifying and distinguishing sets by number or attribute | - | - | - |  |  |  |  |
| Classifying geometric shapes by attribute | $\bullet$ | - | - |  |  |  |  |
| Organizing information using a Venn diagram |  | - |  | $\bullet$ |  | $\bullet$ |  |
| B. Patterns |  |  |  |  |  |  |  |
| Identifying patterns | $\bullet$ | - | - | - | - | - |  |
| Copying a given pattern | $\bullet$ | $\bullet$ | - |  |  | - |  |
| Describing a pattern | - | $\bullet$ | - |  |  |  |  |
| Describing a pattern using math manipulatives | $\bullet$ | $\bullet$ | - |  |  |  |  |
| Identifying the next object in a pattern | $\bullet$ | $\bullet$ | - | - | - | $\bullet$ |  |
| Extending and designing patterns | - | $\bullet$ | - |  | - | - |  |
| Finding patterns in sequencing of counting | $\bullet$ | $\bullet$ | - | $\bullet$ |  |  |  |
| Writing the next number in sequence to 100 |  | $\bullet$ |  |  |  |  |  |
| Identifying the number before, after, or between given numbers | $\bullet$ | $\bullet$ | - |  |  |  |  |
| Finding number patterns using a hundred chart | $\bullet$ | $\bullet$ |  |  |  |  |  |
| Finding number patterns using a table |  |  | $\bullet$ |  |  | - |  |
| Exploring and predicting number patterns |  |  | $\bullet$ |  |  |  | $\bullet$ |
| Skip-counting by 2's, 5's, and 10's | - | $\bullet$ | - | - |  |  |  |
| Skip-counting by 100's |  |  |  | - |  |  |  |
| Designing patterns with 2's, 5's, and 10's |  | - | - |  |  |  |  |
| Identifying number patterns as they relate to the Distributive Property |  |  |  |  |  |  | - |
| Identifying odd and even numbers |  |  | - | - | $\bullet$ |  |  |
| Identifying even numbers as matched pairs |  |  | - | - |  |  |  |
| Identifying prime and composite numbers |  |  |  |  | - | - | $\bullet$ |
| Exploring square numbers |  |  |  |  | - | - | - |
| Exploring square roots |  |  |  |  |  |  | - |
| Distinguishing between terminating and repeating decimals |  |  |  |  |  |  | $\bullet$ |
| C. Geometric Patterns |  |  |  |  |  |  |  |
| Exploring patterns with slide symmetry (translation) | $\bullet$ | $\bullet$ |  |  |  |  |  |
| Exploring patterns with spin or turn symmetry (rotation) | - | $\bullet$ |  |  |  |  |  |
| Exploring patterns with mirror or flip symmetry (reflection) | $\bullet$ | $\bullet$ |  |  |  |  |  |
| Identifying and extending patterns of slides, flips, and turns |  |  |  | - | - | - |  |


|  | K | 1 | 2 | 3 | 4 | 5 | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Performing transformations of two- and three-dimensional figures |  |  |  |  |  | - | - |
| Identifying and drawing congruent lines, angles, and figures |  |  |  |  |  | - | - |
| Identifying planes of symmetry within a figure |  |  |  |  |  |  | - |
| II. NUMBER THEORY |  |  |  |  |  |  |  |
| A. Writing Numerals |  |  |  |  |  |  |  |
| Reading and writing numbers to 31 | - |  |  |  |  |  |  |
| Counting numbers to 100 | - |  |  |  |  |  |  |
| Reading and writing numbers to 100 |  | - | - |  |  |  |  |
| Reading and writing numbers through the thousands |  |  | - |  |  |  |  |
| Reading and writing numbers through the hundred thousands |  |  | - | $\bullet$ |  |  |  |
| Reading and writing numbers through the hundred millions |  |  |  |  | - |  |  |
| Reading and writing numbers through the hundred billions |  |  |  |  |  | - |  |
| Reading and writing numbers through the hundred trillions |  |  |  |  |  |  | $\bullet$ |
| Writing Roman numerals |  |  |  |  | - | - | - |
| Identifying integers |  |  |  |  |  | - | $\bullet$ |
| Identifying abundant, deficient, and perfect numbers |  |  |  |  |  |  | $\bullet$ |
| Exploring binary numbers |  |  |  |  |  |  | - |
| B. Rounding Numbers |  |  |  |  |  |  |  |
| Rounding numbers to the nearest ten |  |  | $\bullet$ | - |  | - | $\bullet$ |
| Rounding numbers to the nearest hundred |  |  |  | - | - | - | - |
| Rounding numbers to the nearest thousand |  |  |  |  | - | - | - |
| Rounding numbers to the nearest ten thousand |  |  |  |  | - | - | $\bullet$ |
| Rounding numbers to the nearest hundred thousand |  |  |  |  | - | - | $\bullet$ |
| Rounding numbers to the nearest hundred million |  |  |  |  | - | - | - |
| Rounding decimals to the nearest whole number |  |  |  | - | - | - | - |
| Rounding decimals to the nearest tenth |  |  |  |  |  | - | $\bullet$ |
| Rounding decimals to the nearest hundredth |  |  |  |  |  | - | - |
| C. Ordinal Numbers |  |  |  |  |  |  |  |
| Using ordinal names first through fifth | - |  |  |  |  |  |  |
| Using ordinal names first through tenth |  | - | - | - | - |  |  |
| Using ordinal names through twentieth |  |  | - | $\bullet$ | $\bullet$ |  |  |
| Using ordinal names through hundredth |  |  |  | - | - |  |  |
| Using a calendar to review ordinal numbers | $\bullet$ | - | $\bullet$ |  | - |  |  |
| III. PLACE VALUE |  |  |  |  |  |  |  |
| A. Number Identification |  |  |  |  |  |  |  |
| Reading and writing numbers to the tens place | $\bullet$ | - | $\bullet$ |  |  |  |  |
| Reading and writing numbers to the hundreds place |  | $\bullet$ | $\bullet$ |  |  |  |  |
| Exploring the number 100 | $\bullet$ | $\bullet$ |  |  |  |  |  |


|  | K | 1 | 2 | 3 | 4 | 5 | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Modeling 2-digit numbers | $\bullet$ |  |  |  |  |  |  |
| Modeling 2- and 3-digit numbers |  | $\bullet$ | $\bullet$ |  |  |  |  |
| Reading and writing numbers to the thousands place |  |  | - |  |  |  |  |
| Modeling 4-digit numbers |  |  | - | $\bullet$ | - |  |  |
| Exploring the number 1,000 |  |  | - |  |  |  |  |
| Using expanded notation |  |  | - | $\bullet$ | $\bullet$ | - | - |
| Reading and writing numbers to the hundred thousands place |  |  |  | - | - |  |  |
| Reading and writing numbers to the hundred millions place |  |  |  |  | - |  |  |
| Reading and writing numbers to the hundred billions place |  |  |  |  |  | - |  |
| Reading and writing numbers to the hundred trillions place |  |  |  |  |  |  | - |
| Reading and writing decimals to the tenths and hundredths place |  |  |  | - | $\bullet$ |  |  |
| Reading and writing decimals to the thousandths place |  |  |  |  |  | - |  |
| Reading and writing decimals to the hundred-thousandths place |  |  |  |  |  |  | $\bullet$ |
| B. Comparing Numbers |  |  |  |  |  |  |  |
| Comparing number sets | - | - | - |  |  |  |  |
| Comparing numbers up to 100 |  | $\bullet$ | - |  |  |  |  |
| Comparing numbers up to 1,000 |  |  | $\bullet$ |  |  |  |  |
| Comparing numbers to 10,000 |  |  | - | $\bullet$ |  |  |  |
| Comparing numbers to hundred millions |  |  |  |  | $\bullet$ |  |  |
| Comparing numbers to hundred billions |  |  |  |  |  | - |  |
| Comparing numbers to hundred trillions |  |  |  |  |  |  | $\bullet$ |
| Comparing decimals to the hundredths place |  |  |  | - | - |  |  |
| Comparing decimals to the thousandths place |  |  |  |  |  | - |  |
| Comparing decimals to the ten-thousandths place |  |  |  |  |  |  | $\bullet$ |
| Comparing integers |  |  |  |  |  | - | $\bullet$ |
| Finding equal sets | - | - |  |  |  |  |  |
| Identifying numbers before or after a number, or between two given numbers | $\bullet$ | - | - | $\bullet$ | $\bullet$ | - | $\bullet$ |
| Using a number line to find numbers greater than or less than | - | $\bullet$ |  |  | - | $\bullet$ | $\bullet$ |
| Using a hundred chart to find numbers greater than or less than | - | $\bullet$ |  |  |  |  |  |
| C. Ordering Numbers |  |  |  |  |  |  |  |
| Ordering 1-digit numbers | $\bullet$ | - |  |  |  |  |  |
| Ordering 2-digit numbers | - | - | - |  |  |  |  |
| Ordering 3-digit numbers |  | - | - |  |  |  |  |
| Ordering 4-digit numbers |  |  | - | - | $\bullet$ |  |  |
| Ordering 5-digit numbers |  |  |  |  | - |  |  |
| Ordering 6-digit numbers |  |  |  |  |  | - |  |
| Ordering 13-digit numbers |  |  |  |  |  |  | $\bullet$ |
| Ordering decimals to the hundredths place |  |  |  | $\bullet$ | $\bullet$ |  |  |


|  | K | 1 | 2 | 3 | 4 | 5 | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ordering decimals to the thousandths place |  |  |  |  |  | - |  |
| Ordering decimals to the ten-thousandths place |  |  |  |  |  |  | $\bullet$ |
| Ordering integers |  |  |  |  |  | - | - |
| IV. STATISTICS |  |  |  |  |  |  |  |
| A. Graph Reading and Analysis |  |  |  |  |  |  |  |
| Reading and interpreting bar graphs | - | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | - | - |
| Reading and interpreting pictographs | - | - | - | - | - | - |  |
| Reading and interpreting tables |  | - | - | $\bullet$ | - | - | $\bullet$ |
| Reading and interpreting tally charts | $\bullet$ | $\bullet$ |  | - | - | - | $\bullet$ |
| Reading and interpreting line graphs |  |  |  | - | - | - | $\bullet$ |
| Reading and interpreting histograms |  |  |  |  |  | - | - |
| Reading and interpreting circle graphs |  |  |  |  | - | - | - |
| Reading and interpreting line plots |  |  |  |  |  | - | $\bullet$ |
| Reading and interpreting stem and leaf plots |  |  |  |  |  |  | - |
| Identifying factors that make graphs misleading; correcting graphs |  |  |  |  |  |  | $\bullet$ |
| B. Collecting and Recording Data |  |  |  |  |  |  |  |
| Collecting data by conducting a survey |  |  |  | - | - | - | $\bullet$ |
| Collecting data by other methods |  |  |  |  | - | - | $\bullet$ |
| Recording information from an experiment | - | - | - | - | - | - | - |
| Recording information on a tally chart | $\bullet$ | $\bullet$ |  |  | - | - | - |
| C. Designing Graphs |  |  |  |  |  |  |  |
| Designing bar graphs |  | - | - | - | - | - | $\bullet$ |
| Designing pictographs |  |  |  | $\bullet$ | - | - |  |
| Designing line graphs |  |  |  | - | - | - | $\bullet$ |
| Designing histographs |  |  |  |  |  | - | - |
| Designing circle graphs |  |  |  |  | - | - | - |
| Selecting appropriate types of graphs for different data |  |  |  |  |  | - | $\bullet$ |
| D. Statistics |  |  |  |  |  |  |  |
| Making line plots |  |  |  |  |  | $\bullet$ | - |
| Finding mean, median, and mode |  |  |  |  |  | - | $\bullet$ |
| Finding the range of given data |  |  |  |  |  | - | - |
| V. ADDITION |  |  |  |  |  |  |  |
| A. Addition Basics |  |  |  |  |  |  |  |
| Adding numbers with sums to 4 | - | $\bullet$ |  |  |  |  |  |
| Adding numbers with sums to 6 | $\bullet$ | $\bullet$ |  |  |  |  |  |
| Adding numbers with sums to 8 | - | $\bullet$ |  |  |  |  |  |
| Adding numbers with sums to 10 | - | - | - |  |  |  |  |
| Adding numbers with sums to 12 |  | - | - |  |  |  |  |


|  | K | 1 | 2 | 3 | 4 | 5 | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Adding numbers with sums to 14 |  | - | - |  |  |  |  |
| Adding numbers with sums to 18 |  | $\bullet$ | - | - |  |  |  |
| Using the counting-on strategy | $\bullet$ | - | - | $\bullet$ |  |  |  |
| Using a number line for counting on | - | $\bullet$ | - |  |  |  |  |
| Using the "doubles" strategy |  | $\bullet$ | - | - | - |  |  |
| Using the "doubles + 1" strategy |  | - | - | $\bullet$ | - |  |  |
| Using the "making a 10" strategy |  | - | - | $\bullet$ | - |  |  |
| Using an addition block |  |  | - |  |  |  |  |
| Using the Grouping (Associative) Property of Addition |  |  |  | $\bullet$ | - | $\bullet$ | $\bullet$ |
| Using the Order (Commutative) Property of Addition | - | $\bullet$ | $\bullet$ | $\bullet$ | - | - | $\bullet$ |
| Addition fact families for sums up to 10 | - | - | - | $\bullet$ |  |  |  |
| Using the Zero Property of Addition |  |  | - | $\bullet$ | $\bullet$ | - | - |
| Adding 3 or more addends | - | - | $\bullet$ | - | - | - |  |
| Adding 2-digit numbers |  | - | $\bullet$ |  | $\bullet$ |  |  |
| Adding money amounts to ninety-nine cents | - | - | - |  |  |  |  |
| Adding 3-digit numbers |  |  | - | - | $\bullet$ |  |  |
| Adding 4-digit numbers |  |  |  | - | - |  |  |
| Checking addition by using subtraction |  |  | $\bullet$ |  |  |  |  |
| Using addition facts to mentally add |  |  | - | - |  |  |  |
| Estimating sums |  | - | - | - | - | - | $\bullet$ |
| B. Addition with Regrouping |  |  |  |  |  |  |  |
| Learning to regroup 10 ones as one 10 | - | $\bullet$ | $\bullet$ |  |  |  |  |
| Adding a 1-digit number to a 2-digit number |  | - | - | - |  |  |  |
| Adding 2-digit numbers, regrouping ones as tens |  | - | $\bullet$ | - |  |  |  |
| Adding three 2-digit addends |  |  | - | - |  |  |  |
| Adding cents or whole dollar figures |  |  | $\bullet$ |  |  |  |  |
| Adding 3-digit numbers, regrouping ones as tens |  |  | - | - | $\bullet$ |  |  |
| Adding 3-digit numbers, regrouping tens as hundreds |  |  | - | - | $\bullet$ |  |  |
| Adding 3-digit numbers, regrouping ones and tens (2 regroupings) |  |  | - | - | $\bullet$ |  |  |
| Adding 4-digit numbers with regrouping |  |  |  | - | $\bullet$ |  |  |
| Adding 5-digit numbers with regrouping |  |  |  |  | $\bullet$ | - |  |
| Adding 6-digit numbers with regrouping |  |  |  |  |  |  | $\bullet$ |
| Adding mixed dollar and cents amounts |  |  |  | $\bullet$ | $\bullet$ | - | $\bullet$ |
| C. Adding Fractions |  |  |  |  |  |  |  |
| Adding fractions with common denominators |  |  |  | - | - | - | $\bullet$ |
| Adding unlike fractions |  |  |  |  | - | - | $\bullet$ |
| Adding mixed numbers |  |  |  |  | - | - | $\bullet$ |
| Adding mixed numbers with renaming |  |  |  |  |  | $\bullet$ | $\bullet$ |


|  | K | 1 | 2 | 3 | 4 | 5 | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Estimating fraction and mixed number sums |  |  |  |  |  | - | - |
| D. Adding Decimals |  |  |  |  |  |  |  |
| Adding decimals through the hundredths |  |  |  | - | - | - |  |
| Adding decimals through the thousandths |  |  |  |  |  | - |  |
| Adding decimals through the ten-thousandths place |  |  |  |  |  |  | $\bullet$ |
| Estimating decimal sums |  |  |  | - | - | - | - |
| VI. SUBTRACTION |  |  |  |  |  |  |  |
| A. Subtraction Basics |  |  |  |  |  |  |  |
| Subtracting from numbers up to 6 | - | - |  |  |  |  |  |
| Subtracting from numbers up to 10 | - | $\bullet$ | - |  |  |  |  |
| Subtracting from numbers up to 12 |  | $\bullet$ | - |  |  |  |  |
| Subtracting from numbers up to 14 |  | $\bullet$ | - |  |  |  |  |
| Using a number line to subtract | $\bullet$ | - | - |  |  |  |  |
| Using ten-frames to subtract numbers up to 10 | - |  |  |  |  |  |  |
| Using ten-frames to subtract numbers up to 18 |  | - |  |  |  |  |  |
| Using the "counting back" strategy to subtract | $\bullet$ | - | - | - |  |  |  |
| Using the "doubles minus one" strategy |  |  | $\bullet$ |  |  |  |  |
| Subtracting a number from itself, and subtracting zero | - | - | - |  |  |  |  |
| Subtracting 2-digit numbers |  | - | - |  | - |  |  |
| Subtracting 2-digit numbers using tens mats |  | - |  |  |  |  |  |
| Subtracting 3-digit numbers |  |  | - |  | $\bullet$ |  |  |
| Subtracting money amounts to ninety-nine cents | $\bullet$ | - | $\bullet$ |  |  |  |  |
| Relating subtraction to addition by using fact families | - | - | $\bullet$ | - | $\bullet$ |  |  |
| Using subtraction to check addition |  |  | - |  |  |  |  |
| Using addition to check subtraction |  |  | - | - | - |  |  |
| B. Subtraction with Regrouping |  |  |  |  |  |  |  |
| Practicing regrouping tens as ones | $\bullet$ | $\bullet$ | - |  |  |  |  |
| Subtracting a 1-digit number from a 2-digit number |  | - | - |  |  |  |  |
| Subtracting 2-digit numbers, regrouping tens as needed |  | - | $\bullet$ | $\bullet$ | - |  |  |
| Subtracting from a number having a zero in the ones place |  |  | $\bullet$ | $\bullet$ |  |  |  |
| Subtracting across zeroes |  |  | - | - | $\bullet$ | - |  |
| Subtracting 3-digit numbers, regrouping tens as ones |  |  | - | $\bullet$ | - |  |  |
| Subtracting 3-digit numbers, regrouping hundreds as tens |  |  | - | - | - |  |  |
| Subtracting 3-digit numbers, regrouping hundreds and tens |  |  | - | - | - |  |  |
| Subtracting 4-digit numbers, more than one regrouping |  |  |  | - | - |  |  |
| Subtracting 5-digit numbers, more than one regrouping |  |  |  |  | - | - |  |
| Subtracting 6-digit numbers with regrouping |  |  |  |  |  |  | $\bullet$ |
| Estimating differences |  |  | - | - | - | - | $\bullet$ |


|  | K | 1 | 2 | 3 | 4 | 5 | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Subtracting money amounts |  |  | - | - | - | $\bullet$ | - |
| C. Subtracting Fractions |  |  |  |  |  |  |  |
| Subtracting fractions with like denominators |  |  |  | - | - | - | - |
| Subtracting fractions with unlike denominators |  |  |  |  | - | - | $\bullet$ |
| Subtracting mixed numbers |  |  |  |  | - | $\bullet$ | $\bullet$ |
| Subtracting fractions from a whole number with renaming |  |  |  |  |  | - | $\bullet$ |
| Subtracting mixed numbers with renaming |  |  |  |  |  | - | - |
| Estimating differences in fractions and mixed numbers |  |  |  |  |  | - | - |
| D. Subtracting Decimals |  |  |  |  |  |  |  |
| Subtracting decimals through the hundredths |  |  |  | - | - | - |  |
| Subtracting decimals through the thousandths place |  |  |  |  |  | - |  |
| Subtracting decimals through the ten-thousandths place |  |  |  |  |  |  | $\bullet$ |
| Estimating decimal differences |  |  |  |  | - | - | - |
| VII. MULTIPLICATION |  |  |  |  |  |  |  |
| A. Multiplication Basics |  |  |  |  |  |  |  |
| Exploring multiplication by making groups of equal size |  | - | - |  |  |  |  |
| Exploring the relationship between multiplication and repeated addition |  | - | - |  |  |  |  |
| Relating repeated addition and/or skip-counting to multiplication |  |  | - | $\bullet$ | - |  |  |
| Multiplying single-digit numbers by 2 |  |  | - | - | - |  |  |
| Multiplying single-digit numbers by 3 |  |  | - | $\bullet$ | - |  |  |
| Multiplying single-digit numbers by 4 |  |  | - | - | - |  |  |
| Multiplying single-digit numbers by 5 |  |  | - | $\bullet$ | - |  |  |
| Multiplying single-digit numbers by 6 |  |  |  | $\bullet$ | - |  |  |
| Multiplying single-digit numbers by 7 |  |  |  | $\bullet$ | - |  |  |
| Multiplying single-digit numbers by 8 |  |  |  | $\bullet$ | - |  |  |
| Multiplying single-digit numbers by 9 |  |  |  | $\bullet$ | - |  |  |
| Multiplying single-digit numbers by 10 |  |  | $\bullet$ | - | - |  |  |
| Multiplying by 11 |  |  |  |  | - |  |  |
| Multiplying by 12 |  |  |  |  | - |  |  |
| Using a number line to find a product |  |  | $\bullet$ | $\bullet$ |  |  |  |
| Making arrays to model multiplication facts |  |  | $\bullet$ | - | - |  |  |
| Using the Order (Commutative) Property of Multiplication |  |  | - | $\bullet$ | - | - | $\bullet$ |
| Using the Zero Property of Multiplication |  |  |  | - | - | - | - |
| Using the Multiplication Identity Property of One |  |  |  | $\bullet$ | - | - | $\bullet$ |
| Using the Grouping (Associative) Property of Multiplication |  |  |  |  | $\bullet$ | - | $\bullet$ |
| Using the Distributive Property |  |  |  |  |  | - | - |
| Using a multiplication block to learn facts |  |  | $\bullet$ | - | - |  |  |


|  | K | 1 | 2 | 3 | 4 | 5 | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Relating multiplication and division facts |  |  | - | - | - |  |  |
| Multiplying by tens |  |  |  |  | $\bullet$ | - | $\bullet$ |
| Multiplying by hundreds |  |  |  | - | - | - | $\bullet$ |
| Multiplying by thousands |  |  |  |  | - | - | $\bullet$ |
| Multiplying by ten thousands |  |  |  |  |  |  | $\bullet$ |
| Multiplying 2-digit numbers without regrouping |  |  |  | - | $\bullet$ |  |  |
| Multiplying 3-digit numbers without regrouping |  |  |  | - | - |  |  |
| Factoring; distinguishing between prime and composite numbers |  |  |  |  | - | - | - |
| Determining the greatest common factor |  |  |  |  |  | - | $\bullet$ |
| Exploring exponents |  |  |  |  | $\bullet$ | - | - |
| B. Multiplication with Regrouping |  |  |  |  |  |  |  |
| Multiplying 2-digit numbers by single-digit numbers, regrouping ones |  |  |  | - | - |  |  |
| Multiplying 2-digit numbers by single-digit numbers, regrouping ones and tens |  |  |  | - | - |  |  |
| Estimating products |  |  |  | - | $\bullet$ | - |  |
| Multiplying 3-digit numbers by single-digit numbers, regrouping ones |  |  |  | - | $\bullet$ |  |  |
| Multiplying 3-digit numbers by single-digit numbers, regrouping ones and tens |  |  |  | - | - |  |  |
| Multiplying 3-digit numbers by single-digit numbers, regrouping ones, tens, and hundreds |  |  |  | - | - | $\bullet$ |  |
| Multiplying 4-digit numbers by single-digit numbers, regrouping as needed |  |  |  |  | - |  |  |
| Multiplying 4-digit money amounts by a single-digit number |  |  |  |  | - | - |  |
| Multiplying larger numbers by single-digit numbers |  |  |  |  |  | - | $\bullet$ |
| C. Multi-Digit Multiplication |  |  |  |  |  |  |  |
| Estimating products of 2- and 3-digit factors |  |  |  |  | - | - | $\bullet$ |
| Estimating products of 3- and 4-digit factors |  |  |  |  | - | - | $\bullet$ |
| Multiplying 2-digit factors by multiples of 10 |  |  |  |  | - |  |  |
| Multiplying two 2-digit factors |  |  |  |  | - | - | $\bullet$ |
| Multiplying 3-digit numbers by 2-digit numbers |  |  |  |  | - | - | $\bullet$ |
| Multiplying money amounts up to \$10.00 by 2-digit factors |  |  |  |  | - | - | $\bullet$ |
| Multiplying 2-, 3-, and 4-digit numbers by 3-digit factors |  |  |  |  |  | - | - |
| Using lattice multiplication |  |  |  |  |  | - |  |
| D. Multiplying Fractions |  |  |  |  |  |  |  |
| Using multiplication to find equivalent fractions |  |  |  |  | - | - | $\bullet$ |
| Using multiplication to find fractional parts of whole numbers |  |  |  |  |  | - | - |
| Multiplying two fractions |  |  |  |  |  | - | $\bullet$ |
| Multiplying fractions with whole numbers |  |  |  |  |  | - | - |


|  | K | 1 | 2 | 3 | 4 | 5 | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Multiplying fractions with mixed numbers |  |  |  |  |  | - | $\bullet$ |
| Estimating products of fractions, whole numbers, and mixed numbers |  |  |  |  |  | - | - |
| E. Multiplying Decimals |  |  |  |  |  |  |  |
| Estimating products by rounding factors |  |  |  |  |  | $\bullet$ | - |
| Multiplying decimal factors by whole numbers |  |  |  |  |  | - | $\bullet$ |
| Multiplying two decimal factors |  |  |  |  |  | - | $\bullet$ |
| Multiplying decimals with zeros in the product |  |  |  |  |  | - | $\bullet$ |
| Multiplying decimals by multiples of 10 |  |  |  |  |  | - | $\bullet$ |
| VIII. DIVISION |  |  |  |  |  |  |  |
| A. Division Basics |  |  |  |  |  |  |  |
| Exploring sharing-type division |  | - | - |  |  |  |  |
| Relate multiplication to division |  | $\bullet$ | - | - | - | - | $\bullet$ |
| Relating division to repeated subtraction |  |  | $\bullet$ | - |  |  | - |
| Using multiplication and division fact families |  |  |  | - | - |  |  |
| Using 2 as a divisor |  |  |  | $\bullet$ | - |  |  |
| Using 3 as a divisor |  |  |  | $\bullet$ | $\bullet$ |  |  |
| Using 4 as a divisor |  |  |  | $\bullet$ | - |  |  |
| Using 5 as a divisor |  |  |  | $\bullet$ | - |  |  |
| Using 6 as a divisor |  |  |  | $\bullet$ | $\bullet$ |  |  |
| Using 7 as a divisor |  |  |  | $\bullet$ | - |  |  |
| Using 8 as a divisor |  |  |  | - | - |  |  |
| Using 9 as a divisor |  |  |  | - | - |  |  |
| Dividing with 1 |  |  |  | $\bullet$ | $\bullet$ | - | - |
| Dividing with 0 |  |  |  | - | - | - | $\bullet$ |
| Dividing by multiples of 10, 100, and 1,000 |  |  |  | - | - | - | - |
| Using division facts to estimate quotients of unfamiliar division problems |  |  |  | - | - | - | $\bullet$ |
| B. Long Division |  |  |  |  |  |  |  |
| Learning steps of division |  |  |  | - |  |  |  |
| Dividing a 2-digit dividend by a 1-digit divisor; no remainders |  |  |  | $\bullet$ | - | $\bullet$ |  |
| Estimating 2- and 3-digit quotients |  |  |  |  | - | - | - |
| Dividing up to 4-digit numbers by a 1-digit divisor with remainders |  |  |  | - | - | - | - |
| Dividing 5-digit numbers by a 1-digit divisor with remainders |  |  |  |  |  | - | - |
| Interpreting remainders |  |  |  | - | $\bullet$ | - | $\bullet$ |
| Finding averages |  |  |  | - | - | - | $\bullet$ |
| Dividing money amounts by a 1-digit divisor |  |  |  |  | - | $\bullet$ |  |
| Rules of divisibility |  |  |  |  |  | $\bullet$ | - |


|  | K | 1 | 2 | 3 | 4 | 5 | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| C. Multi-Digit Division |  |  |  |  |  |  |  |
| Estimating quotients with 2-digit divisors |  |  |  |  |  | $\bullet$ | - |
| Correcting an estimated quotient |  |  |  |  | - | - |  |
| Dividing up to 5-digit numbers by a 2-digit divisor |  |  |  |  |  | - | $\bullet$ |
| Dividing up to 5-digit numbers by a 3-digit divisor |  |  |  |  |  |  | $\bullet$ |
| Checking multi-digit division by multiplication |  |  |  |  |  |  | $\bullet$ |
| D. Dividing Fractions |  |  |  |  |  |  |  |
| Exploring the division of fractions using objects and pictures |  |  |  |  |  | - | $\bullet$ |
| Dividing whole numbers by fractions |  |  |  |  |  | - | - |
| Dividing fractions by fractions |  |  |  |  |  | - | $\bullet$ |
| Dividing fractions and mixed numbers |  |  |  |  |  |  | $\bullet$ |
| Using division to simplify complex fractions |  |  |  |  |  |  | - |
| Estimating fraction quotients |  |  |  |  |  |  | - |
| Using division in the betweenness property |  |  |  |  |  |  | $\bullet$ |
| E. Dividing Decimals |  |  |  |  |  |  |  |
| Dividing a decimal by a whole number |  |  |  |  |  | - | $\bullet$ |
| Mentally dividing a decimal by 10, 100, and 1,000 |  |  |  |  |  | - | - |
| Dividing money amounts |  |  |  |  |  | - | - |
| Dividing whole numbers by decimals to the tenth, hundredth, and thousandth places |  |  |  |  |  |  | $\bullet$ |
| Dividing with a decimal divisor and decimal dividend |  |  |  |  |  |  | $\bullet$ |
| Estimating decimal quotients |  |  |  |  |  |  | $\bullet$ |
| IX. FRACTIONS |  |  |  |  |  |  |  |
| A. Identifying Fractions |  |  |  |  |  |  |  |
| Recognizing equal and non-equal parts | - | - | - |  |  |  |  |
| Identifying one-half of wholes or sets | - | - | - | - |  |  |  |
| Identifying thirds of wholes or sets |  | - | - | $\bullet$ |  |  |  |
| Identifying fourths of wholes or sets |  | $\bullet$ | - | - |  |  |  |
| Identifying fractional parts of a whole and a set | - | - | - | - | - | - |  |
| Writing fractions for fractional parts |  | - | - | - | - | - |  |
| Dividing wholes and sets into fractional parts | $\bullet$ | - | - | - | - | $\bullet$ |  |
| Showing or drawing fractional parts of a whole or set | - | - | - | - | - | - |  |
| Finding a fraction of a number |  |  |  |  | - | - |  |
| B. Comparing Fractions |  |  |  |  |  |  |  |
| Using models to compare fractions with like and unlike denominators |  |  |  |  | - | - |  |
| Using a number line to compare and order fractions |  |  |  | - | $\bullet$ | $\bullet$ |  |
| Comparing fractions with greater than, less than, and equal signs |  |  |  | - | - | $\bullet$ | - |
| Recognizing equal fractions |  |  | - | - | - | - | - |


|  | K | 1 | 2 | 3 | 4 | 5 | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Using models to make equivalent fractions |  |  |  | $\bullet$ | - | - | - |
| Using multiplication and division to make equivalent fractions |  |  |  | - | - | - | $\bullet$ |
| Writing a fraction in simplest terms |  |  |  |  | - | $\bullet$ | - |
| C. Mixed Numbers and Improper Fractions |  |  |  |  |  |  |  |
| Identifying mixed numbers and whole numbers for fractional models |  |  |  | - | - | - | - |
| Writing mixed numbers or whole number for fractions |  |  |  | - | $\bullet$ | - | - |
| D. Adding Fractions |  |  |  |  |  |  |  |
| Adding fractions with common denominators |  |  |  | - | $\bullet$ | - | $\bullet$ |
| Adding unlike fractions |  |  |  |  | - | - | - |
| Adding mixed numbers |  |  |  |  | - | - | - |
| Adding mixed numbers with renaming |  |  |  |  |  | - | - |
| Estimating fraction and mixed number sums |  |  |  |  |  | $\bullet$ | - |
| E. Subtracting Fractions |  |  |  |  |  |  |  |
| Subtracting fractions with like denominators |  |  |  | $\bullet$ | $\bullet$ | - | $\bullet$ |
| Subtracting fractions with unlike denominators |  |  |  |  | - | - | - |
| Subtracting mixed numbers |  |  |  |  | - | $\bullet$ | - |
| Subtracting fractions from a whole number with renaming |  |  |  |  |  | $\bullet$ | $\bullet$ |
| Subtracting mixed numbers with renaming |  |  |  |  |  | - | $\bullet$ |
| Estimating differences in fractions and mixed numbers |  |  |  |  |  | - | - |
| F. Multiplying Fractions |  |  |  |  |  |  |  |
| Using multiplication to find equivalent fractions |  |  |  |  | $\bullet$ | $\bullet$ | - |
| Using multiplication to find fractional parts of whole numbers |  |  |  |  |  | $\bullet$ | $\bullet$ |
| Multiplying two fractions |  |  |  |  |  | $\bullet$ | - |
| Multiplying fractions with mixed numbers |  |  |  |  |  | $\bullet$ | $\bullet$ |
| Estimating products of fractions, whole numbers, and mixed numbers |  |  |  |  |  | $\bullet$ | $\bullet$ |
| G. Dividing Fractions |  |  |  |  |  |  |  |
| Exploring the division of fractions using objects and pictures |  |  |  |  |  | - | $\bullet$ |
| Dividing whole numbers by fractions |  |  |  |  |  | $\bullet$ | - |
| Dividing fractions by fractions |  |  |  |  |  | - | - |
| Dividing fractions and mixed numbers |  |  |  |  |  |  | - |
| Using division to simplify complex fractions |  |  |  |  |  |  | $\bullet$ |
| Estimating fraction quotients |  |  |  |  |  |  | - |
| Using division in the betweenness property |  |  |  |  |  |  | - |
| X. DECIMALS |  |  |  |  |  |  |  |
| A. Identifying Decimals |  |  |  |  |  |  |  |
| Recognizing equal parts |  | - | - |  |  |  |  |
| Identifying parts of a whole and of a set |  | $\bullet$ | - |  |  |  |  |
| Relating fraction concepts to decimals |  |  |  | $\bullet$ | - | $\bullet$ |  |


|  | K | 1 | 2 | 3 | 4 | 5 | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Making models of decimals to the hundredths place |  |  |  | - | - |  |  |
| Reading and writing decimals in the tenths place |  |  |  | - | - | - | - |
| Reading and writing decimals in the hundredths place |  |  |  | - | - | - | - |
| Reading and writing decimals greater than one |  |  |  | - | - | - | $\bullet$ |
| Exploring decimals in the thousandths place |  |  |  |  | - |  |  |
| Reading and writing decimals in the thousandths place |  |  |  |  |  | - | - |
| Reading and writing decimals in the ten-thousandths place |  |  |  |  |  |  | - |
| B. Comparing Decimals |  |  |  |  |  |  |  |
| Comparing and ordering decimals to the hundredths place |  |  |  | - | - |  |  |
| Comparing and ordering decimals to the thousandths place |  |  |  |  |  | - |  |
| Comparing and ordering decimals to the ten-thousandths place |  |  |  |  |  |  | $\bullet$ |
| Recognizing equivalent decimals; writing equal decimals through the hundredths place |  |  |  |  | $\bullet$ | - | - |
| Rounding decimals to the nearest whole number |  |  |  | - | - | $\bullet$ |  |
| Rounding decimals to the nearest tenth or hundredth |  |  |  |  |  | - |  |
| Rounding decimals through the hundred-thousandths place |  |  |  |  |  |  | - |
| C. Adding Decimals |  |  |  |  |  |  |  |
| Adding decimals through the hundredths |  |  |  | - | - | - |  |
| Adding decimals through the thousandths |  |  |  |  |  | - |  |
| Adding decimals through the ten-thousandths place |  |  |  |  |  |  | - |
| Estimating decimal sums |  |  |  | - |  | - | - |
| D. Subtracting Decimals |  |  |  |  |  |  |  |
| Subtracting decimals through the hundredths |  |  |  | - | - | $\bullet$ |  |
| Subtracting decimals through the thousandths place |  |  |  |  |  | - |  |
| Subtracting decimals through the ten-thousandths place |  |  |  |  |  |  | $\bullet$ |
| Estimating decimal differences |  |  |  |  |  | - | - |
| E. Multiplying Decimals |  |  |  |  |  |  |  |
| Estimating products by rounding factors |  |  |  |  |  | - |  |
| Multiplying decimal factors by whole numbers |  |  |  |  |  | - | - |
| Multiplying two decimal factors |  |  |  |  |  | - | $\bullet$ |
| Multiplying decimals with zeros in the product |  |  |  |  |  | - | - |
| Multiplying decimals by multiples of 10 |  |  |  |  |  |  | - |
| F. Dividing Decimals |  |  |  |  |  |  |  |
| Dividing a decimal by a whole number |  |  |  |  |  | - | $\bullet$ |
| Mentally dividing a decimal by 10, 100, and 1,000 |  |  |  |  |  | - | $\bullet$ |
| Dividing money amounts |  |  |  |  |  | - | - |
| Dividing whole numbers by decimals to the tenth, hundredth, and thousandth places |  |  |  |  |  |  | - |
| Dividing with a decimal divisor and decimal dividend |  |  |  |  |  |  | $\bullet$ |


|  | K | 1 | 2 | 3 | 4 | 5 | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Estimating decimal quotients |  |  |  |  |  |  | $\bullet$ |
| XI. ALGEBRA |  |  |  |  |  |  |  |
| A. Equations |  |  |  |  |  |  |  |
| Writing number sentences | - | - | - | - | - | - | $\bullet$ |
| Finding missing addends | - | $\bullet$ | - | $\bullet$ | - | - | $\bullet$ |
| Finding a missing number in subtraction by using various strategies |  |  | $\bullet$ | $\bullet$ | $\bullet$ |  | $\bullet$ |
| Finding the missing factor |  |  |  | - | - | $\bullet$ | $\bullet$ |
| Solving for a variable in a number sentence |  |  |  | $\bullet$ |  | - | $\bullet$ |
| Understanding related addition and subtraction facts | $\bullet$ | - | $\bullet$ | $\bullet$ | - | - | $\bullet$ |
| Understanding related multiplication and division facts |  |  | - | - | - | - | $\bullet$ |
| Checking computation by using the inverse operation |  |  | - | - | - | - | - |
| Solving equations using inverse operations |  |  |  |  |  |  | $\bullet$ |
| B. Properties |  |  |  |  |  |  |  |
| Using the Order (Commutative) Property of Addition | $\bullet$ | - | - | $\bullet$ | - | - | $\bullet$ |
| Using the Order (Commutative) Property of Multiplicaton |  |  |  | - | - | - | $\bullet$ |
| Using the Zero Property of Addition |  |  | - | - | $\bullet$ | - | $\bullet$ |
| Using the Zero Property of Multiplicaton |  |  |  | $\bullet$ | - | - | $\bullet$ |
| Using the Multiplicaton Property of One |  |  |  | $\bullet$ | - | - | $\bullet$ |
| Using the Grouping (Associative) Property of Addition |  |  |  | $\bullet$ | - | - | - |
| Using the Grouping (Associative) Property of Multiplication |  |  |  |  | - | - | - |
| Using the Distributive Property |  |  |  |  |  | - | $\bullet$ |
| C. Factoring |  |  |  |  |  |  |  |
| Distinguishing between a prime and composite number |  |  |  |  | - | - | $\bullet$ |
| Prime factorization |  |  |  |  |  | $\bullet$ | $\bullet$ |
| Finding and listing factors of composite numbers |  |  |  |  | - | - | - |
| Finding the greatest common factor |  |  |  |  |  | - | - |
| D. Coordinates |  |  |  |  |  |  |  |
| Using grid coordinates |  | $\bullet$ |  |  |  |  |  |
| Graphing ordered pairs |  |  |  | $\bullet$ |  | - | - |
| Locating a point using ordered pairs |  |  |  | - |  | - | $\bullet$ |
| Using a four-quadrant grid |  |  |  |  |  |  | - |
| E. Formulas |  |  |  |  |  |  |  |
| Using the formula for area |  |  |  |  | $\bullet$ | - | $\bullet$ |
| Using the formula for area of rectangles and squares |  |  |  |  |  | - |  |
| Using the formula for area of quadrilaterals |  |  |  |  |  |  | $\bullet$ |
| Using the formula for area of triangles |  |  |  |  |  | - | - |
| Applying the area formula to irregular figures |  |  |  |  |  | $\bullet$ | $\bullet$ |
| Using the formula for area of circles |  |  |  |  |  |  | - |


|  | K | 1 | 2 | 3 | 4 | 5 | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Using the formula for perimeter |  |  |  |  | - | - | - |
| Using the formula for perimeter of a square and rectangle |  |  |  |  | - | - | $\bullet$ |
| Using the formula for circumference |  |  |  |  |  | - | $\bullet$ |
| Using the formula for volume |  |  |  |  | $\bullet$ | - | $\bullet$ |
| Using the formula for volume of a triangular prism |  |  |  |  |  |  | - |
| Using the formula for volume of a cube and rectangular prism |  |  |  |  |  | - | - |
| Using the formula for volume of a cylinder |  |  |  |  |  |  | - |
| Calculating interest |  |  |  |  |  | - | $\bullet$ |
| F. Exponents |  |  |  |  |  |  |  |
| Exploring exponents |  |  |  |  |  | - | $\bullet$ |
| G. Integers |  |  |  |  |  |  |  |
| Exploring integers |  |  |  |  |  | - | $\bullet$ |
| Comparing and ordering integers |  |  |  |  |  | - | $\bullet$ |
| Using a number line to add and subtract integers |  |  |  |  |  | - | $\bullet$ |
| Adding and subtracting integers (without number line) |  |  |  |  |  |  | $\bullet$ |
| Multiplying and dividing integers |  |  |  |  |  |  | $\bullet$ |
| H. Ratio and Proportions |  |  |  |  |  |  |  |
| Solving proportions |  |  |  |  |  | - | $\bullet$ |
| Using cross products |  |  |  |  |  | - | $\bullet$ |
| Finding rate and unit rate |  |  |  |  |  |  | $\bullet$ |
| XII. GEOMETRY |  |  |  |  |  |  |  |
| A. Symmetry |  |  |  |  |  |  |  |
| Recognizing slide symmetry (translation) | - | - |  | - | - | - | $\bullet$ |
| Recognizing spin or turn symmetry (rotation) | $\bullet$ | - |  | - | - | - | $\bullet$ |
| Recognizing mirror or flip symmetry (reflection) | $\bullet$ | $\bullet$ |  | - | - | - | - |
| Modeling slides, flips, and turns |  |  |  | - | - | - | $\bullet$ |
| Identifying lines of symmetry | - | $\bullet$ | $\bullet$ | - | - | - | - |
| Identifying planes of symmetry |  |  |  |  |  |  | $\bullet$ |
| B. Shapes |  |  |  |  |  |  |  |
| Identifying solid shapes | - | - | - | - | - | - | $\bullet$ |
| Identifying faces, edges, and vertices of solid figures |  |  |  | - | - | - | $\bullet$ |
| Identifying polyhedrons |  |  |  |  |  | - | $\bullet$ |
| Identifying prisms |  |  | - |  | - | - | - |
| Identifying plane shapes | - | - | - | - | - | - | $\bullet$ |
| Distinguishing between similar solid and plane shapes (e.g., sphere and circle) | - | - | - | - |  |  |  |
| Distinguishing between squares and rectangles | $\bullet$ | - | - | - | - |  |  |
| Classifying quadrilaterals (parallelograms, trapezoids, rhombuses, rectangles, squares) |  |  | - |  | - | - | - |


|  | K | 1 | 2 | 3 | 4 | 5 | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Identifying triangles by the length of sides and type of angles |  |  |  |  | - | - | $\bullet$ |
| Identifying the center, radius, and diameter of circles |  |  |  |  | - | - | - |
| Identifying central angles |  |  |  |  |  |  | - |
| Identifying chords |  |  |  |  |  | - | $\bullet$ |
| Identifying concentric circles |  |  |  |  |  |  | - |
| Constructing circles by using a compass |  |  |  |  | - | - | - |
| Identifying polygons by number of sides |  |  |  |  | - | - | $\bullet$ |
| Identifying regular polygons |  |  |  |  |  | - | - |
| Constructing polygons by using a compass |  |  |  |  |  |  | - |
| Drawing plane shapes | $\bullet$ | - | - | - |  |  |  |
| Distinguishing between open and closed figures |  | $\bullet$ |  | - | - |  |  |
| Identifying congruent figures |  |  |  | - | - | - | $\bullet$ |
| Identifying similar figures |  |  |  |  | - | - | - |
| Using the geoboard | $\bullet$ | $\bullet$ | - | $\bullet$ | - |  |  |
| Using pentominoes |  |  | - |  |  | - |  |
| Exploring tessellations |  |  |  |  | - |  |  |
| C. Angles |  |  |  |  |  |  |  |
| Recognizing acute, obtuse, and right angles |  |  | - | $\bullet$ | $\bullet$ | - | $\bullet$ |
| Identifying straight angles |  |  |  |  |  | - | $\bullet$ |
| Identifying and naming angles |  |  |  | - | - | - | - |
| Identifying reflex angles |  |  |  |  |  |  | - |
| Measuring and constructing angles with a protractor |  |  |  |  |  | - | - |
| Identifying complementary and supplementary angles |  |  |  |  |  |  | - |
| D. Lines and Line Segments |  |  |  |  |  |  |  |
| Identifying points |  |  |  |  | - | - | - |
| Identifying lines and line segments |  |  |  | $\bullet$ | - | - | - |
| Identifying rays |  |  |  |  | - | - | - |
| Naming points, lines, line segments, and rays |  |  |  |  | - | - | $\bullet$ |
| Identifying parallel and intersecting lines |  |  |  | $\bullet$ | - | - | $\bullet$ |
| Identifying perpendicular lines |  |  |  |  | - | - | - |
| Identifying skew lines |  |  |  |  |  |  | $\bullet$ |
| Constructing congruent line segments |  |  |  |  |  |  | $\bullet$ |
| Bisecting line segments |  |  |  |  |  |  | - |
| Identifying planes |  |  |  |  |  | - | - |
| E. Coordinates |  |  |  |  |  |  |  |
| Locating ordered pairs |  |  |  | $\bullet$ | - | - | - |
| F. Measurement of Geometric Figures |  |  |  |  |  |  |  |
| Finding area by counting square units |  | $\bullet$ |  | - | - |  |  |


|  | K | 1 | 2 | 3 | 4 | 5 | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Finding the area of rectangles and squares |  |  |  | $\bullet$ | $\bullet$ | - | - |
| Finding the area of quadrilaterals |  |  |  |  |  |  | $\bullet$ |
| Finding the area of triangles |  |  |  |  |  | - | $\bullet$ |
| Finding the area of irregular figures |  |  |  |  |  | $\bullet$ | $\bullet$ |
| Finding surface area |  |  |  |  |  | - | - |
| Finding the perimeter of polygons |  |  |  | - | $\bullet$ | - | - |
| Finding circumference |  |  |  |  |  | $\bullet$ | - |
| Relating circumference and diameter as pi |  |  |  |  |  | - | $\bullet$ |
| Finding the area of a circle |  |  |  |  |  |  | - |
| Finding volume by counting cubic units |  |  |  |  | $\bullet$ | $\bullet$ |  |
| Finding volume of rectangular prism |  |  |  |  | $\bullet$ | - | $\bullet$ |
| Finding volume of triangular prism and cylinders |  |  |  |  |  |  | - |
| XIII. PROBLEM SOLVING |  |  |  |  |  |  |  |
| A. Data Sources |  |  |  |  |  |  |  |
| Using information from pictures | - | - | - |  |  |  |  |
| Using a code |  | $\bullet$ | $\bullet$ |  |  |  |  |
| Using a calendar to solve problems | - | - | $\bullet$ | $\bullet$ | - | $\bullet$ |  |
| Using information from a line plot |  |  |  |  |  | - | - |
| Using information from a menu |  |  |  |  | - |  |  |
| Using information from a recipe |  |  |  | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ |
| Using information from a nutrition label |  |  |  |  |  |  | $\bullet$ |
| Using a stem and leaf plot |  |  |  |  |  |  | $\bullet$ |
| Using information from tables and graphs | $\bullet$ | - | $\bullet$ | $\bullet$ | - | $\bullet$ | $\bullet$ |
| B. Skills and Strategies |  |  |  |  |  |  |  |
| Acting out a problem | $\bullet$ | - |  |  | $\bullet$ |  |  |
| Analyzing the data | $\bullet$ | - | $\bullet$ | $\bullet$ | $\bullet$ | - | $\bullet$ |
| Choosing the best strategy for a given problem |  |  |  |  | $\bullet$ | - | $\bullet$ |
| Choosing the correct operation | - | - | - | - | $\bullet$ | - | - |
| Choosing mental math, pencil and paper, or calculator |  |  | $\bullet$ | $\bullet$ | $\bullet$ |  | - |
| Conducting an experiment; drawing conclusions | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ |
| Determining the best measurement tool for specific situations |  | - | $\bullet$ |  |  |  |  |
| Determining reasonable answers | - | - | - | - | $\bullet$ | - | - |
| Drawing a picture, diagram, or model | $\bullet$ | - | $\bullet$ | - | $\bullet$ | - | $\bullet$ |
| Estimating and verifying measurements |  | - | $\bullet$ | $\bullet$ | $\bullet$ | - | $\bullet$ |
| Looking for a pattern | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ |
| Making a graph | - | - | $\bullet$ | - | - | - | - |
| Making a systematic list |  |  |  | - | $\bullet$ | - | $\bullet$ |
| Making a table | $\bullet$ | $\bullet$ | $\bullet$ | - | - | - | $\bullet$ |


|  | K | 1 | 2 | 3 | 4 | 5 | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Recognizing that there is insufficient information |  | - |  |  | - | - |  |
| Recognizing unnecessary information |  | - |  |  | - | - |  |
| Solving analogies |  |  |  |  |  |  | $\bullet$ |
| Solving two-step word problems |  |  | - | - | - | - | $\bullet$ |
| Solving multi-step word problems |  |  |  |  | - | - | - |
| Solving problems with more than one answer |  |  |  | $\bullet$ | - | - | - |
| Using a calculator |  |  | $\bullet$ | - | - | - | - |
| Using formulas |  |  |  |  | - | - | - |
| Using inverse operations |  |  | $\bullet$ |  |  | - | - |
| Using known equations |  |  |  |  |  | - | $\bullet$ |
| Using logical reasoning |  |  | - |  |  | - | $\bullet$ |
| Using variables to solve for missing number |  |  |  | - |  | - | - |
| Using the STAR Problem Solving Path |  | - | $\bullet$ |  |  |  |  |
| Using the Pathway to Problem Solving |  |  |  | $\bullet$ | - |  |  |
| Using the Problem-Solving Guide |  |  |  |  |  | - | $\bullet$ |
| Using the "try and check" method |  |  |  |  | - | - |  |
| Working backward |  |  |  | - | - | - | $\bullet$ |
| Writing an equation |  |  |  |  | - | - | $\bullet$ |
| Writing a math sentence or story using information from pictures | $\bullet$ | - | $\bullet$ | - |  |  |  |
| C. Computational Skills Application |  |  |  |  |  |  |  |
| Estimating sums |  | - | $\bullet$ | - | $\bullet$ | - | $\bullet$ |
| Estimating differences |  |  | $\bullet$ | - | - | - | - |
| Addition | $\bullet$ | - | - | $\bullet$ | - | - | $\bullet$ |
| Subtraction | - | - | - | - | - | - | $\bullet$ |
| Addition and subtraction of money | - |  | - | - | $\bullet$ | - | $\bullet$ |
| Estimating products |  |  |  | - | $\bullet$ | - | - |
| Estimating quotients |  |  |  | - | - | - | $\bullet$ |
| Multiplication |  |  | - | - | - | - | $\bullet$ |
| Division |  |  | - | - | $\bullet$ | - | $\bullet$ |
| Multiplication and division of money |  |  |  | - | - | - | $\bullet$ |
| Division, interpreting remainders |  |  |  | - | - | - | $\bullet$ |
| Fractions |  |  | $\bullet$ | $\bullet$ | - | - | $\bullet$ |
| Decimals |  |  |  | - | - | - | - |
| Percents |  |  |  |  |  | - | - |
| Checking and correcting computation (inverse operations) |  |  | $\bullet$ | - | - | - | $\bullet$ |
| Elapsed time | $\bullet$ | - | - | - | - | - | $\bullet$ |
| Adding and subtracting hours and minutes |  |  |  |  |  | - | $\bullet$ |


|  | K | 1 | 2 | 3 | 4 | 5 | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| D. Map Skills |  |  |  |  |  |  |  |
| Using a compass and directional words |  | - |  |  |  |  |  |
| Identifying locations on a map |  | - |  | - | - | - | - |
| Following directions on a map | $\bullet$ | - |  |  |  | - |  |
| Determining the best route |  |  |  | - | - | - | - |
| Calculating mileage |  |  |  |  | - | $\bullet$ | - |
| Using a scale to calculate mileage |  |  |  |  |  | - | $\bullet$ |
| Using data from scale drawings |  |  |  |  |  | - | $\bullet$ |
| Using a map to calculate area and perimeter |  |  |  |  |  |  | $\bullet$ |
| XIV. PROBABILITY |  |  |  |  |  |  |  |
| A. Probability Basics |  |  |  |  |  |  |  |
| Relating favorable outcomes to the number of possible outcomes |  | - |  | - | $\bullet$ | $\bullet$ | $\bullet$ |
| Making predictions | - | - |  | $\bullet$ | $\bullet$ | - | $\bullet$ |
| Identifying outcomes as certain, probable, or impossible |  |  |  | - | - | - | - |
| Identifying outcomes as less likely, more likely, or equally likely |  |  |  |  | - | - | $\bullet$ |
| Writing probability as a fraction |  |  |  | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ |
| Using proportions in probability |  |  |  | - | - | - | $\bullet$ |
| Writing probability as a percent |  |  |  |  |  |  | $\bullet$ |
| B. Advanced Probability |  |  |  |  |  |  |  |
| Distinguishing between experimental probability and mathematical probability |  |  |  |  |  |  | $\bullet$ |
| Representing possible outcomes with a tree diagram or sample space |  |  |  |  |  |  | $\bullet$ |
| Arranging items when order matters (permutations) and when order does not matter (combinations) |  |  |  |  |  |  | $\bullet$ |
| Recording outcomes on a line plot |  |  |  |  |  |  | $\bullet$ |
| Determining probability of compound events |  |  |  |  |  |  | $\bullet$ |
| XV. TECHNOLOGY |  |  |  |  |  |  |  |
| A. Keyboard Skills |  |  |  |  |  |  |  |
| Recognizing letter positions on computer keyboards |  | - |  | - |  |  |  |
| Recognizing number and operational keys on calculators |  | - | $\bullet$ | $\bullet$ |  |  |  |
| Performing key sequences |  |  |  |  | - | - | $\bullet$ |
| Using the percent key |  |  |  |  |  | - | $\bullet$ |
| Using the square root key |  |  |  |  |  |  | $\bullet$ |
| Using the square (exponent) key |  |  |  |  |  |  | $\bullet$ |
| Using the integer sign change key |  |  |  |  |  |  | $\bullet$ |
| B. Problem Solving |  |  |  |  |  |  |  |
| Distinguishing problems best solved by calculator, pencil and paper, or mental math |  |  |  |  |  |  |  |
| Using the calculator to check and correct computation |  | - |  |  |  | $\bullet$ |  |


|  | K | 1 | 2 | 3 | 4 | 5 | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Using the calculator for advanced addition and subtraction |  | - | - |  | $\bullet$ | - | - |
| Using the calculator for addition and subtraction of money |  |  | $\bullet$ |  | $\bullet$ | - | $\bullet$ |
| Using the calculator for multiplication |  |  |  |  | - | - | $\bullet$ |
| Using the calculator for division |  |  |  |  | - | - | $\bullet$ |
| Calculating average or mean |  |  |  |  | - | - | $\bullet$ |
| Calculating range |  |  |  |  |  | - | - |
| Finding decimal equivalents for fractions |  |  |  |  |  | - | - |
| Finding percents |  |  |  |  |  | - | $\bullet$ |
| Using a calculator for completing formulas |  |  |  |  |  |  | $\bullet$ |
| Using calculator computation to design tables and graphs |  |  |  |  |  | - |  |
| C. Patterns |  |  |  |  |  |  |  |
| Finding patterns by repeated multiplication (constant multipliers) |  |  |  |  | - | $\bullet$ | - |
| Distinguishing between terminating and repeating decimals |  |  |  |  |  |  | $\bullet$ |
| Finding multiples of larger numbers |  |  |  |  |  | $\bullet$ | $\bullet$ |
| Patterns of equations |  |  |  |  |  |  | $\bullet$ |
| Using calculators to square numbers |  |  |  |  | - |  |  |
| XVI. MEASUREMENT |  |  |  |  |  |  |  |
| A. Linear Measurement |  |  |  |  |  |  |  |
| Comparing lengths of everyday objects (without measuring) | - | - |  |  | - |  |  |
| Choosing the appropriate unit of length |  |  | $\bullet$ | $\bullet$ | - | $\bullet$ | $\bullet$ |
| Measuring length with nonstandard units | $\bullet$ | $\bullet$ |  | $\bullet$ | $\bullet$ |  |  |
| Measuring by whole inches | - | - | $\bullet$ | - | $\bullet$ | - |  |
| Measuring to the nearest half inch |  |  |  | $\bullet$ | - | - |  |
| Measuring to the nearest quarter inch |  |  |  |  | - | - |  |
| Measuring to the nearest eighth inch |  |  |  |  |  | $\bullet$ |  |
| Measuring to the nearest sixteenth inch |  |  |  |  |  | - |  |
| Estimating and measuring by whole feet | $\bullet$ | - | $\bullet$ | $\bullet$ | $\bullet$ |  |  |
| Estimating and measuring by whole yards |  |  | - | $\bullet$ | - |  |  |
| Estimating length by miles |  |  |  | $\bullet$ |  |  |  |
| Converting measurements from one customary unit to another |  |  |  |  | - | $\bullet$ | $\bullet$ |
| Adding and subtracting mixed customary units of linear measurement |  |  |  |  |  |  | $\bullet$ |
| Estimating and measuring by millimeters |  |  |  |  | $\bullet$ |  |  |
| Estimating and measuring by centimeters |  | - | $\bullet$ | $\bullet$ | $\bullet$ |  |  |
| Estimating and measuring by decimeters |  |  | $\bullet$ |  | $\bullet$ |  |  |
| Estimating and measuring by meters |  |  | $\bullet$ | - | $\bullet$ |  |  |
| Estimating length by meters or kilometers |  |  |  | - | $\bullet$ |  |  |
| Converting measurements from one metric unit to another |  |  |  |  | - | - | - |


|  | K | 1 | 2 | 3 | 4 | 5 | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| B. Capacity |  |  |  |  |  |  |  |
| Comparing volume of everyday objects | $\bullet$ | - | $\bullet$ |  | - |  |  |
| Comparing different units of capacity (cups, pints, quarts) |  | $\bullet$ | - | - | - |  |  |
| Choosing the appropriate unit of capacity |  |  | $\bullet$ | - | - | - | - |
| Estimating and measuring by cups, pints, quarts, and gallons |  | $\bullet$ | - | - | - |  |  |
| Converting measurements from one customary unit to another |  |  |  |  | - | - | $\bullet$ |
| Adding and subtracting mixed customary units of capacity |  |  |  |  |  |  | - |
| Comparing other units of capacity to the liter |  | $\bullet$ |  | - | - |  |  |
| Estimating and measuring by liters |  |  |  | - | - | - |  |
| Estimating and measuring by milliliters |  |  |  |  | - | $\bullet$ |  |
| Converting measurements from one metric unit of capacity to another |  |  |  |  | - | - | $\bullet$ |
| C. Weight and Mass |  |  |  |  |  |  |  |
| Comparing the weight of everyday objects to one pound | $\bullet$ | $\bullet$ | $\bullet$ | - | - |  |  |
| Choosing the appropriate unit of weight or mass |  |  | $\bullet$ | - | - | $\bullet$ | $\bullet$ |
| Estimating and measuring weight in ounces and pounds |  | $\bullet$ | $\bullet$ | - | - |  |  |
| Estimating weight in tons |  |  |  |  | - |  |  |
| Converting measurements from one customary unit of weight to another |  |  |  |  | - | - | $\bullet$ |
| Adding and subtracting mixed customary units of weight |  |  |  |  |  |  | $\bullet$ |
| Estimating and measuring mass in grams and kilograms |  | $\bullet$ | - | - | - | - |  |
| Converting measurements from one metric unit of mass to another |  |  |  |  | - | - | - |
| Distinguishing between mass and weight |  |  |  |  |  |  | - |
| D. Temperature |  |  |  |  |  |  |  |
| Estimating, measuring, and recording temperature using a Fahrenheit thermometer | - | $\bullet$ | $\bullet$ | - | - | $\bullet$ | $\bullet$ |
| Estimating, measuring, and recording temperature using a Celsius thermometer |  |  |  | - | - | - | - |
| E. Measurement Formulas |  |  |  |  |  |  |  |
| Finding area by counting square units |  | $\bullet$ |  | - | - |  |  |
| Using the formula for finding area of rectangles and squares |  |  |  |  | - | - | $\bullet$ |
| Using the formula for finding area of parallelograms and trapezoids |  |  |  |  |  |  | $\bullet$ |
| Finding the area of a triangle |  |  |  |  |  | $\bullet$ | - |
| Finding the surface area of a prism |  |  |  |  |  | - | $\bullet$ |
| Finding the surface area of a pyramid |  |  |  |  |  |  | $\bullet$ |
| Finding the surface area of a cylinder |  |  |  |  |  |  | $\bullet$ |
| Finding perimeter by adding the length of sides |  |  |  | - | - | $\bullet$ | $\bullet$ |
| Using the formula for finding perimeter of rectangles and squares |  |  |  |  | - | - | $\bullet$ |
| Finding the circumference of a circle |  |  |  |  |  | - | - |
| Finding volume by counting cubic units |  |  |  | - | - | $\bullet$ |  |


|  | K | 1 | 2 | 3 | 4 | 5 | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Using the formula for finding volume of solid figures |  |  |  |  | $\bullet$ | - | - |
| F. Maps and Scale Drawings |  |  |  |  |  |  |  |
| Finding and calculating distances |  |  |  |  | - | - | - |
| XVII. TIME |  |  |  |  |  |  |  |
| A. Using the calendar |  |  |  |  |  |  |  |
| Relating activities to months and seasons | - | - | $\bullet$ |  |  |  |  |
| Reading the calendar | - | - | - | $\bullet$ | $\bullet$ |  |  |
| Completing a calendar | - | - | - |  |  |  |  |
| Naming the date, weeks before or after a given date |  |  | - | $\bullet$ | $\bullet$ |  |  |
| Finding elapsed time on a calendar |  |  | - |  | - |  |  |
| B. Telling and Writing Time |  |  |  |  |  |  |  |
| Telling time to the hour | - | $\bullet$ |  |  |  |  |  |
| Telling time to the half hour | $\bullet$ | $\bullet$ | - | - |  |  |  |
| Telling time to the quarter hour |  | - | - | - |  |  |  |
| Telling time in 5-minute intervals |  |  | - | $\bullet$ |  |  |  |
| Telling time to the minute |  |  |  | $\bullet$ | $\bullet$ |  |  |
| Telling time by minutes before and after the hour |  |  |  | - |  |  |  |
| Distinguishing between A.M. and P.M. |  |  | - |  |  |  |  |
| Writing time in digital notation |  |  | - |  |  |  |  |
| C. Comparing Time |  |  |  |  |  |  |  |
| Comparing durations of time (activities that take more or less time) |  | $\bullet$ |  |  |  |  |  |
| Comparing durations of elapsed time |  |  |  |  | $\bullet$ |  |  |
| Choosing an appropriate unit of time |  |  |  |  | $\bullet$ |  |  |
| D. Calculating Time |  |  |  |  |  |  |  |
| Calculating elapsed time (15-minute intervals) |  |  | - |  |  |  |  |
| Calculating elapsed time (whole hour intervals) |  | - | - |  |  |  |  |
| Calculating elapsed time (hours and minute intervals) |  |  | - | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ |
| Stating an end time for given elapsed time |  | - | - | - | - | - | $\bullet$ |
| Reading a schedule | $\bullet$ | - | - | $\bullet$ | - |  |  |
| Organizing information on a schedule chart |  |  |  | - |  |  |  |
| Calculating time in other time zones |  |  |  |  | - | $\bullet$ |  |
| Calculating elapsed time between time zones |  |  |  |  |  | $\bullet$ |  |
| Adding and subtracting hours and minutes |  |  |  |  |  | - | $\bullet$ |
| Adding and subtracting hours, minutes, and seconds |  |  |  |  |  | - | $\bullet$ |
| XVIII. MONEY |  |  |  |  |  |  |  |
| A. Identifying U.S. Currency |  |  |  |  |  |  |  |
| Recognizing and counting pennies, nickels, and dimes | - | $\bullet$ | $\bullet$ | $\bullet$ |  |  |  |
| Recognizing and counting quarters | - | - | - | - |  |  |  |


|  | K | 1 | 2 | 3 | 4 | 5 | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Recognizing one dollar and identifying amounts equal to one dollar | - | - | - | - |  |  |  |
| Recognizing and counting half-dollars |  |  | - | - |  |  |  |
| Comparing money amounts |  | - | - | - |  |  |  |
| Identifying equivalent groups of coins |  | - | - |  |  |  |  |
| Identifying equivalent groups of coins and/or bills |  |  | - | $\bullet$ |  |  |  |
| Rounding money amounts to the nearest dollar or ten dollars |  |  |  |  | - | - | - |
| Exploring the symbols and history of the U.S. dollar bill |  |  |  |  | - |  |  |
| B. Calculating Money Amounts |  |  |  |  |  |  |  |
| Adding and subtracting up to ten cents | - | $\bullet$ |  |  |  |  |  |
| Adding and subtracting up to one dollar |  | $\bullet$ | - |  |  |  |  |
| Adding mixed dollar and cent amounts |  | - | - | $\bullet$ | - | - | $\bullet$ |
| Subtracting mixed dollar and cent amounts |  |  | - | - | - | - | - |
| Estimating a sum or difference by rounding to the nearest whole dollar |  |  |  | - | $\bullet$ | - | - |
| Estimating a sum or difference by rounding to the nearest ten dollars |  |  |  |  |  | - | - |
| Multiplying 4-digit money amounts by 1-digit multiplier |  |  |  |  | - | $\bullet$ | $\bullet$ |
| Multiplying money amounts by 2-digit multipliers |  |  |  |  | - | - | $\bullet$ |
| Multiplying money amounts by other decimals |  |  |  |  |  | - | - |
| Dividing money amounts by 1-digit divisors |  |  |  |  | - | - | $\bullet$ |
| Dividing money amounts by 2-digit divisors |  |  |  |  |  | - | $\bullet$ |
| Dividing money amounts by other decimals |  |  |  |  |  |  | $\bullet$ |
| C. Everyday Application |  |  |  |  |  |  |  |
| Making buying decisions | - | - | - | - | - | - | $\bullet$ |
| Making change |  | $\bullet$ | - | $\bullet$ | - | - | $\bullet$ |
| Designing a budget |  |  |  |  | - |  | $\bullet$ |
| Balancing a checkbook |  |  |  |  |  |  | $\bullet$ |
| Calculating taxes and discounts |  |  |  |  |  | - | $\bullet$ |
| Calculating interest |  |  |  |  |  | - | $\bullet$ |
| XIX. RATIO, PROPORTION, AND PERCENT |  |  |  |  |  |  |  |
| A. Ratio |  |  |  |  |  |  |  |
| Identifying fractions | - | - | - | - | $\bullet$ | $\bullet$ |  |
| Writing fractions | - | - | - | $\bullet$ | $\bullet$ | - | $\bullet$ |
| Comparing fractions |  |  | - | $\bullet$ | - | - | - |
| Relating fractions and decimals |  |  |  | - | - | - | $\bullet$ |
| Defining ratio |  |  |  |  | - | - | $\bullet$ |
| Expressing ratio as a fraction, decimal, or percent |  |  |  |  | - | - | $\bullet$ |
| Writing ratios for given situations |  |  |  |  | - | - | $\bullet$ |
| Distinguishing between rate and ratio |  |  |  |  |  |  | - |


|  | K | 1 | 2 | 3 | 4 | 5 | 6 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Calculating unit rate |  |  |  |  |  |  | $\bullet$ |
| B. Proportion |  |  |  |  |  |  |  |
| Writing equivalent fractions using models |  |  |  | $\bullet$ | $\bullet$ | $\bullet$ |  |
| Writing equivalent fractions by multiplying and dividing |  |  |  | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ |
| Writing equivalent ratios, completing ratio tables |  |  |  |  |  | $\bullet$ | $\bullet$ |
| Defining and recognizing proportions |  |  |  |  |  | $\bullet$ | $\bullet$ |
| Solving proportions |  |  |  |  |  | $\bullet$ | $\bullet$ |
| Using proportions to solve problems |  |  |  |  |  | $\bullet$ | $\bullet$ |
| C. Percent |  |  |  |  |  |  |  |
| Relating fractions and decimals to percent |  |  |  |  | $\bullet$ | $\bullet$ | $\bullet$ |
| Relating ratio to percent |  |  |  |  | $\bullet$ | $\bullet$ | $\bullet$ |
| Converting fractions with denominators of 100 to percents |  |  |  |  | $\bullet$ | $\bullet$ |  |
| Converting fractions to percent, and percent to fractions |  |  |  |  |  | $\bullet$ | $\bullet$ |
| Writing decimals as percent, and percents as decimals |  |  |  |  |  | $\bullet$ | $\bullet$ |
| Using mental math to find percent based on multiples of 10 |  |  |  |  |  | $\bullet$ | $\bullet$ |
| Estimating percent by rounding |  |  |  |  |  | $\bullet$ | $\bullet$ |
| Finding percent of a number |  |  |  |  |  | $\bullet$ | $\bullet$ |
| Finding what percent one number is of another |  |  |  |  |  |  | $\bullet$ |
| Writing and solving equations involving percent |  |  |  |  |  |  | $\bullet$ |
| Using percent skills in everyday applications |  |  |  |  |  | $\bullet$ | $\bullet$ |



