

FOURTH GRADE: REPORT CARD COMPANION DOCUMENT

MATHEMATICS

NUMBER SENSE

Place Value

- _____ Read and write numbers to millions.
- _____ Order whole numbers and two place decimals.
- _____ Round numbers to nearest 100,000.
- _____ Decide when a rounded solution is good.
- _____ Divide a whole number by a whole number.
- _____ Write 10ths/100ths in decimals and fractions.
- _____ Write a fraction from a drawing of its parts.
- _____ Use concepts of negative numbers.
- _____ Show fractions on a number line.

Computation—Decimals

- _____ Add and subtract whole numbers and two-place decimals.
- _____ Round two-place decimals.

Computation—Whole Numbers

- _____ Add and subtract multi-digit numbers.
- _____ Multiply by two digits/divide by one digit.
- _____ Multiply multi-digits by two digit numbers.
- _____ Divide multi-digits by one digit number.

Factoring

- _____ Factor whole numbers.
- _____ Certain numbers do not have factors.

ALGEBRA AND FUNCTIONS

Number Sentences/Expressions

- _____ Use letters and symbols to represent numbers.
- _____ Understand math expressions that use parentheses.
- _____ Use parentheses to show order of operations.
- _____ Use and interpret formulas.
- _____ Know equations are prescriptions to find a number.

Manipulate Equations

- _____ Know equals added to equals are equal.
- _____ Know equals multiplied by equals are equal.

MEASUREMENT AND GEOMETRY

Area and Perimeter

- _____ Measure area of rectangular shapes.
- _____ Compare rectangles with same area.
- _____ Know that rectangles with same perimeter can have different areas.
- _____ Know and use formulas for perimeter and area.

Coordinate Grids

- _____ Draw points on a graph ($y=3x$)
- _____ Understand horizontal line on graph.
- _____ Understand vertical line on graph.

Geometry

- _____ Identify parallel and perpendicular lines.
- _____ Identify radius and diameter of a circle.
- _____ Identify congruent figures.
- _____ Identify bilateral and rotational symmetry
- _____ Know right, acute, and obtuse angles.
- _____ Describe and make models of geometric solids.
- _____ Know definitions and attributes of triangles.
- _____ Know definitions of quadrilaterals.

STATISTICS, DATA ANALYSIS, AND PROBABILITY

Data Analysis

- _____ Collect and represent data.
- _____ Identify mode and medium of data sets.
- _____ Interpret 1 & 2 variable data graph.

Making Predictions

- _____ State outcomes of probability situations.
- _____ Express outcomes of probability experiments.

MATHEMATICAL REASONING

Make Decisions about a Problem

- _____ Identify relationships in problems.
- _____ Know when and how to break apart problems.

Solve Problems/Justify Reasoning

- _____ Use estimations to verify results.
- _____ Apply strategies to complex problems.
- _____ Use methods to explain math reasoning.
- _____ Express solutions clearly.
- _____ Know advantage of exact or approximate results.