

# MATH

## Math Grade 4

### M.4.A Computation and Estimation

#### A.1. Students will use multiple strategies to:

- a) Add, subtract, and multiply multi-digit numbers.
- b) Memorize/recall multiplication facts and division facts through  $(10 \times 10)$ .

### M.4.B Place Value Relationships

#### B.1. Students will:

- a) Read and write numbers up to one billion.
- b) Order and compare numbers up to one billion.
- c) Give value of digits in large numbers up to one billion.

### M.4.C Geometry

#### C.1. Students will:

- a) Draw and label angles, polygons, and lines (multiple points, rays, segment, and vertex).
- b) Classify angles and polygons (right, acute, and obtuse).

### M.5.D Exponents and Negative Numbers

#### D.1. Students will:

- a) Understand and apply exponential notation.
- b) Recognize positive and negative numbers and order them.
- c) Identify and draw angles (right, acute, and obtuse).
- d) Understand symmetry.

### M.4.E Part/Whole Relationships

#### E.1. Students will:

- a) Find equivalent names for numbers.
- b) Identify the whole.
- c) Understand the fact families.
- d) Convert between hundredths, fractions ( $\frac{1}{4}$ s,  $\frac{1}{5}$ s,  $\frac{1}{10}$ s, and  $\frac{1}{100}$ s), decimals, and percents (set and region).

## M.4.F Organizing Data

### F.1. Student will:

- a) Read and interpret line plots, bar graphs, and charts.
- b) Describe events with basic probability terms (certain, likely, and unlikely).
- c) Use maximum, minimum, range, median, mode and graphs to answer questions, draw conclusions and make predictions.
- d) Make accurate predictions.

## M.4.G Number Stories/Problem Solving

### G.1. Student will:

- a) Apply a strategy to solve problems.
- b) Choose and use tools (calculator, charts, and rate tables).
- c) Explain how you arrived at your answer.

## M.4.H Measurement

### H.1. Student will:

- a) Use and apply given formulas (perimeter, area, and volume).
- b) Demonstrate understanding of relationships between units (standard and metric).
- c) Draw and measure units to the nearest  $\frac{1}{4}$  inch and millimeter.