

# 3rd Grade Math Competencies and Learning Targets:

## **1. (Fractions) Students will identify and represent fractions based on their understanding of equal parts and whole numbers.**

- I can distinguish among and represent whole and fractional numbers (e.g., using set, area, and linear models).
- I can represent whole number and fractional quantities in multiple ways (with words, symbols, models, expressions, equations, etc.).

*Standards Listed: 3.NF.1, 3.NF.2, 3.NF.3*

## **2. (Geometry) Students will identify, compare, and classify attributes of two dimensional shapes.**

- I can compose, decompose, and draw complex figures applying spatial reasoning.
- I can describe, compare, and justify how to classify objects and figures based on shared geometric attributes.

*Standards Listed: 3.G.1, 3.G.2*

## **3. (Numbers in Base-Ten) Students will demonstrate an understanding of number systems when solving problems using whole numbers.**

- I can check the reasonableness of solutions (e.g., with estimation and rounding, diagrams, data tables, models).
- I can model, compare, order, estimate and represent quantities using my understanding of place value to explain my solution or strategy.

*Standards Listed: 3.NBT.1*

## **4. (Operations & Algebraic Thinking) Students will apply reasoning using multiple operations and strategies to solve authentic applied problems.**

- I can transcribe word problems into mathematical equations using symbols.
- I can apply properties and inverse operations between multiplication and division to solve and justify solutions.

- I can fluently add, subtract, multiply, divide and estimate using whole numbers.
- I can represent unknown quantities in mathematical expressions and equations using variables including the four operations.

Standards Listed: 3.OA.1, 3.OA.2, 3.OA.3, 3.OA.4, 3.OA.5, 3.OA.6, 3.OA.7, 3.OA.8

## **5. (Data) Students will record, represent, and interpret data in multiple formats.**

- I can gather, record, and organize data to support my answers.
- I can represent a data set with multiple categories (e.g., using a key to show relationships: 1 circle = 5 dogs; 1 inch = 1 mile).
- I can identify and describe variations in data, and describe and compare shapes of distribution (e.g., using line plot, scaled pictograph).

Standards Listed: 3.MD.3, 3.MD.4

## **6. (Measurement) Students will use measurement tools and standard units to describe and compare objects and to solve measurement problems.**

- I can explain and use relationships among units within a measurement system (e.g., minutes/hour, inches/ft. or yd.).
- I can apply appropriate tools, techniques and formulas while attending to precision to solve problems involving measurement (liquid volume, mass, perimeter, area, time, money, distances).
- I can estimate and justify measurements using appropriate units and relative sizes.

Standards Listed: 3.MD.1, 3.MD.2