

Third Grade Second Semester Math Curriculum Guide

Third Nine Weeks

Fractions as Numbers on a Number Line

Collecting & Displaying Data

3.NF.A.1 Understand a *fraction* $1/b$ as the quantity formed by 1 part when a whole is partitioned into b equal parts

3.NF.A.2 Understand a *fraction* as a number on the number line; represent *fractions* on a *number line diagram*

3.NF.A.3 Explain equivalence of *fractions* in special cases and compare *fractions* by reasoning about their size:

- Understand two *fractions* as equivalent (equal) if they are the same size or the same point on a number line
- Recognize and generate simple equivalent *fractions* (e.g., $1/2 = 2/4$, $4/6 = 2/3$)
- Explain why the *fractions* are equivalent (e.g., by using a *visual fraction model*)
- Express *whole numbers* as *fractions* and recognize *fractions* that are equivalent to *whole numbers* (e.g., Express 3 in the form $3 = 3/1$; recognize that $6/1 = 6$; locate $4/4$ and 1 at the same point of a *number line diagram*)

Compare two *fractions* with the same *numerator* or the same *denominator* by reasoning about their size. Recognize that comparisons are valid only when the two *fractions* refer to the same whole. Record the results of comparisons with symbols ($>$, $=$, $<$) and justify the conclusions (e.g., by using a *visual fraction model*)

3.G.A.2 Partition shapes into parts with equal areas

- Express the area of each part as a *unit fraction* of the whole

Fourth Nine Weeks

Geometry & Measurement Word Problems

3.MD.B.3 Draw a scaled picture graph and a scaled bar graph to represent a data set with several categories (e.g., Draw a bar graph in which each square in the bar graph might represent 5 pets)

Solve one- and two-step "how many more" and "how many less" problems using information presented in scaled picture graphs and scaled bar graphs

3.MD.B.4 Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch

Show the data by making a *line plot*, where the horizontal scale is marked off in appropriate units— *whole numbers*, halves, or quarters