# Unit 4a-Represent And Interpret Data

Content Area: **Mathematics**
Course(s): **Math 3**
Time Period: **Marking Period 4**
Length: **MP4 Topic 7 7-1 to 7-5**
Status: **Published**

## Essential Questions

- How can data be represented, interpreted, and analyzed?

## Big Ideas

- **Read and Make Graphs-** Students learn to read graphs and to generate titles, labels, scales, and pictures or bars.
- **Similar Data in Different Graphs-** Students see the same kind of data represented in picture graphs and bar graphs and build an understanding that there can be more than one way to display a set of data.
- **Connection to Understanding Multiplication-** Students learn that scaled picture graphs use a picture or symbol to represent equal groups of a given size. Scaled bar graphs use intervals to represent equal groups.

## Diversity Integration

Objective: Students will be able to create line plots based on cultural celebrations and holidays.

Description of Activity: Students will create a question regarding a cultural celebration or holiday that they can use to survey the class. The students will create a line plot using the data that they collected. The class will discuss the data together.

## CSDT Technology Integration

8.1.5.DA.1: Collect, organize, and display data in order to highlight relationships or support a claim.

Activity:

Students will use technology and create a graph

## Enduring Understandings

**Measurement and Data**

**3.MD.B (M)** Represent and interpret data

**3.MD.B.3** Draw a scaled picture graph and a scaled bar graph to represent a data set with several categories. Solve one- and two-step "how many more" and "how many less" problems using information presented in scaled bar graphs. For example, draw a bar graph in which each

square in the bar graph might represent 5 pets

**Operations and Algebraic Thinking**

**3.OA.A.3** Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.

**3.OA.D.8** Solve two -step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.

## Mathematical Practices Focus

6. Attend to precision.