# Unit 4a-Represent And Interpret Data 

Content Area: Mathematics<br>Course(s): Math 3<br>Time Period: $\quad$ Marking Period 4<br>Length:<br>Status:<br>MP4 Topic 7 7-1 to 7-5<br>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.

## Technology Integration

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

Activity:

## 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.
