



## Common Core Math Newsletter

### 3rd Grade Unit 5: Collecting and Displaying Data

*In this unit, students will measure objects, collect data, and report the data using picture graphs, bar graphs, and line plots.*

#### **Standards**

##### **3.MD.3**

- Draw a scaled picture graph to represent a data set with several categories
- Draw a scaled bar graph to represent a data set with several categories
- Solve one-step “how many more” or “how many less” problems using information presented in a scaled bar graph
- Solve two-step “how many more” or “how many less” problems using information presented in a scaled bar graph

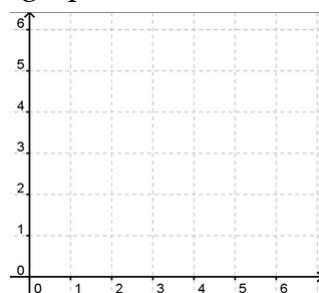
##### **3.MD.4**

- Generate measurement data by measuring lengths using ruler marked with halves of an inch
- Generate measurements data by measuring lengths using ruler marked with fourths of an inch
- Show the data by making a line plot, where the horizontal scale is marked off in appropriate units  
(e.g. whole numbers, halves or quarters)

#### **Vocabulary**

##### **axis**

a fixed reference line drawn on a graph that can be used to measure from to find values



##### **frequency**

how often something happens within a period of time

##### **data**

a collection of facts such as numbers, words, measurements, observations or even just descriptions of things

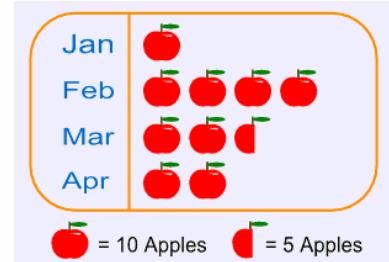
## 3th Grade Common Core Math

### 3rd Grade Unit 5: Collecting and Displaying Data

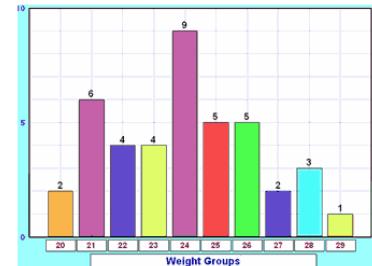
#### Vocabulary

**measurement** a collection of measurement observations  
**data**

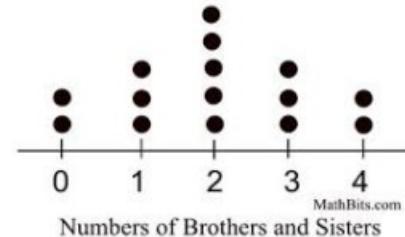
**picture graph** a way of showing data using  
**pictograph** images where images stand  
 for a certain number of things



**scaled bar graph** a graph drawn to show data using vertical or horizontal rectangular bars with a ratio for the lengths of the bars to show how large each value is



**line plot or dot plot** a graph that shows frequency of data along a number line



#### Additional Resources

##### IXL.com Topics:

- **Data & Graphs**
  - P.5, P.6, P.7, P.8, P.9, P.10, P.11, P.12
- **Measurement (Q.3)**

##### LearnZillion.com Videos:

- <https://learnzillion.com/lessonsets/655-draw-scaled-picture-and-bar-graphs>
- <https://learnzillion.com/lessonsets/569-answer-questions-using-information-in-scaled-picture-and-bar-graphs>
- <https://learnzillion.com/lessonsets/656-generate-and-display-measurement-data-using-rulers-marked-with-halves-and-fourths-of-an-inch>
- <https://learnzillion.com/lessonsets/588-generate-and-display-measurement-data>