Collecting Data
Survey
1. asking a question
   "What is your favorite color?"
2. record answers
   blue 1  orange 1  black 1
   red 3  green 4  yellow 1
3. show data on a graph
   Bar Graph

Types of Graphs
- Bar Graph
- Line Graph
- Circle Graph
- Line Plot

Measurement Data
Height of Dogs
- Line plot
- Airedale 24\(\frac{1}{2}\) in.
- German Shepherd 26\(\frac{4}{10}\) in.
- Pit Bull 25\(\frac{5}{10}\) in.
- Labrador 23\(\frac{3}{10}\) in.
- Collie 24\(\frac{1}{2}\) in.

Tables
- Favorite Cookie  Number
  - Peanut Butter  11
  - Chocolate Chip  11
  - Biscochitos  11
  - Animal Crackers  THK

Describing Data
- How many more votes for peanut butter than chocolate chip? 4 votes
- How many fewer votes for biscochitos than peanut butter? 24 votes

What we know...
- Inquiry Data
- Research is data.
- Data has pictures.
- Data sometimes has to work with surveys.
- Data has line graphs.

Who invented data?
- We want to learn about data.
  What do they use data for?