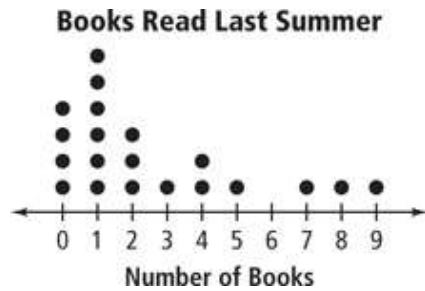


Dot Plots (Line Plots)

A dot plot (also called a line plot) is used to easily organize large sets of data. It is a graph in which each value is shown as a **dot** (or and x) above a number line. Each dot (or x) represents a **single** response.



- 1) How many people read 4 books last summer? _____
- 2) How many people read 1 book last summer? _____
- 3) How many people were surveyed? _____
- 4) Only 2 people read _____ books last summer.

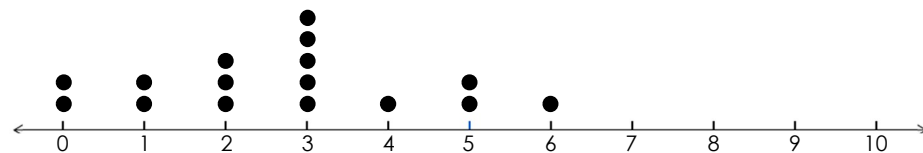
How to make a dot plot?

- 1) Draw a number line.
- 2) Mark off the minimum and maximum values and ALL numbers in between.
- 3) Make a dot (or x) for EACH data value above its number on the number line. Take care to make it neat and easy to read.
- 4) Title your dot plot.

Example:

Number of Jolly Ranchers eaten per day:

1, 2, 4, 3, 5, 2, 3, 6, 1, 0, 0, 5, 2, 3, 3, 3



You Try:

Use the sets of data below to create dot plots and then use the data to find the mean, median, mode and range.

- 1) Number of siblings:

3, 2, 0, 4, 1, 1, 1, 2, 1, 3, 5, 3, 4, 0, 2, 1, 0, 8



Mean: _____ Median: _____
 Mode: _____ Range: _____
 Outliers: _____ Min: _____ Max: _____

- 2) Number of downloaded apps on teens' cell phones:

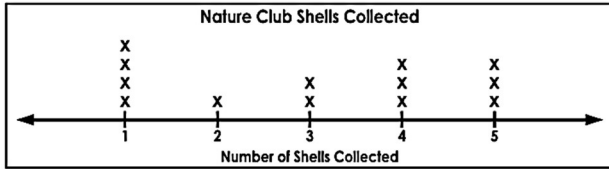
8, 12, 10, 15, 11, 20, 12, 12, 9, 10, 11, 13, 12, 9, 10, 13, 11, 13, 9, 12, 14, 9, 12, 15, 10, 11



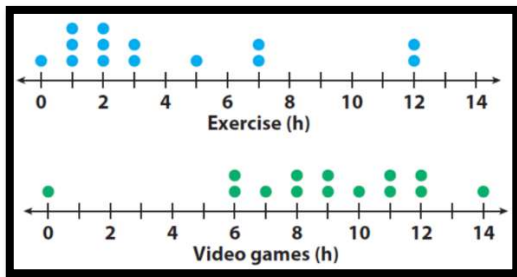
Mean: _____ Median: _____
 Mode: _____ Range: _____
 Outliers: _____ Min: _____ Max: _____

Interpreting Dot Plots (Line Plots)

Use the data in the dot plot to answer questions 1-4.



- 1) What is the mean number of shells collected? _____
- 2) What is the median number of shells collected? _____
- 3) What is the mode? _____
- 4) What is the range? _____



Fourteen students were surveyed about the time they spend exercising and playing video games each week. Compare the data by answering the questions 5-8.

- 5) What is the **range** for the hours of exercise? _____
For playing video games? _____
- 6) What is the **mode** for exercise? _____
Playing video games? _____
- 7) What is the **median** hours spent exercising? _____
Playing video games? _____
- 8) What is the **mean** number of hours spent exercising? _____
Playing video games? _____

Frequency Tables

A **frequency table (chart)** displays data that has been collected.

Season Soccer Scores

Score	Tally	Frequency
1	/	1
2	/	1
3	///	3
4	/	1
5	////	4

Intervals & Frequency Tables

Number of Cups of Coffee

Intervals	Tally	Frequency
0 – 3	//	2
4 – 7	///	3
8 – 11	////	8
12 – 15	///	3
16 – 19	//	2

Intervals must be:

- 1) **equal in values**
- 2) **inclusive of all the data**
- 3) **non-overlapping**

You Try: If your data ranges from 2 to 38, are the intervals below good (👍) or bad (👎)?

- 1) 1-10, 11-20, 21-30, 31-40
- 2) 1-10, 10-20, 20-30, 30-40
- 3) 1-10, 11-15, 16-35, 36-40
- 4) 1-8, 9-16, 17-24, 25-32, 33-40
- 5) 1-10, 11-20, 21-30

