

Name _____ Date _____

Dot Plots and Frequency Tables

Vocabulary:

A **frequency table** is a table that lists each item in a data set with the number of times the item occurs.

Mode is the item that occurs most often in a data set.

Most Often

When Will We Use This?

When organizing data collected from a survey, it is sometimes easier to read the data in a table or graph, rather than in a list.

For Example:

The results from a survey on favorite colors is shown to the right.

It is easier to read this data in the frequency table below.



Favorite Colors

Blue	Blue
Purple	Red
Red	Orange
Blue	Yellow
Blue	Green
Yellow	Blue
Green	Yellow
Purple	Blue

Favorite Color		
Color	Tally	Frequency
Blue		6
Green		2
Orange		1
Purple		2
Red		2
Yellow		3

Make a tally mark for each color chosen.

The number of tally marks in each row is the frequency.

Question:
What is the mode?

Blue

Vocabulary:

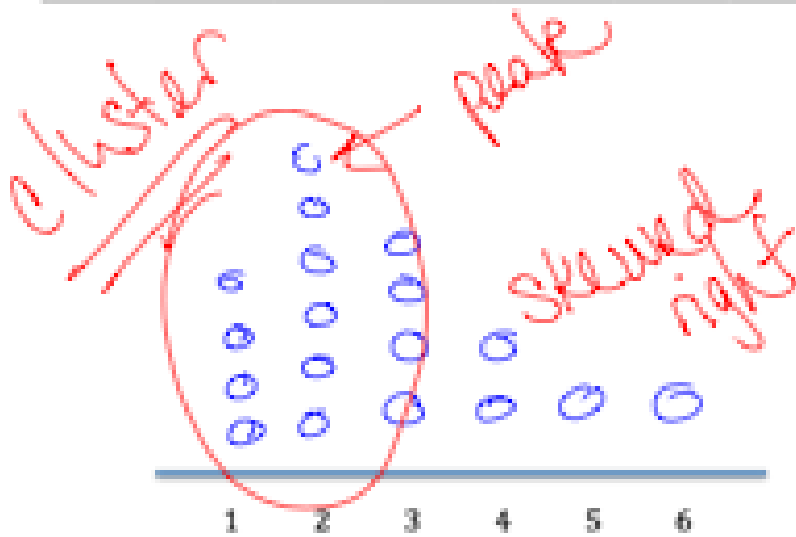
A **dot plot or line plot** is a graph that shows the shape of a data set by stacking dots above each data value on a number line.

OK!

For Example:

The number of DVDs each customer rents when he or she visits a video store are listed in the table below. Create a dot plot for this data.

3	5	1	2	2	1	2	3	3
4	1	2	6	2	2	4	3	1



Number of DVDs	Frequency
1	4
2	6
3	2
4	1
5	1
6	1

Interpret the dot plot.

2 is the mode

Most people rent 2 DVDs while not many rented more than 4.

Think About It...

Why is a frequency table a useful tool to use when creating a dot plot?

Helps keep us organized