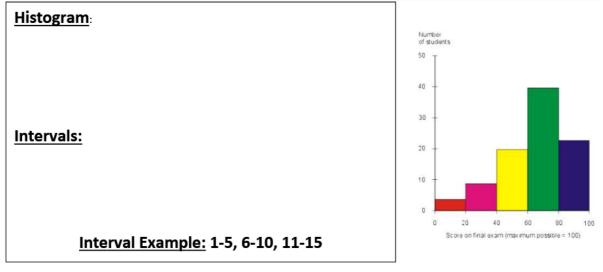
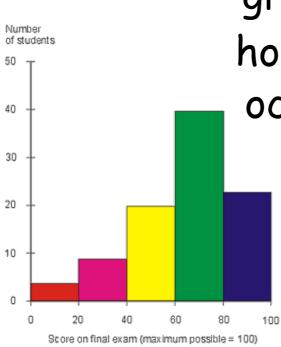
Histograms



Bar Graph	Versus	Historgram				
Used to display:	Used to dis	Used to display:				
Example: Toyota vs. Chrysler	*Bars must	touch!				

Steps for Creating a Histogram

Steps for Creating a Histogram	Number of minutes students used					
1. Construct a frequency:	to study for spelling test.					
-Intervals must be the size	11, 7, 15, 0, 16, 19, 13, 2, 14, 12, 6, 3,					
-Intervals extend to cover all possible	18					
of data						
-Have at least intervals	How many numbers are in the					
2 the frequencies	interval					
-Draw and label vertical and horizontal	from 0 to 4?					
	from 5 to 9?					
-Draw a for each interval	from 10 to 14?					
*Bars are drawn with an width	from 15 to 19?					
*Bars should						
3. Give the graph a						



<u>Histograms</u>- bar graph that displays how frequently data occurs within equal intervals intervals- space between two units, set of numbers consisting of all numbers between them

Interval Ex: 1-5, 6-10, 11-15

Bar Graph versus Histogram

Used to display and compare categorical data. (NOT Numerical)

Ex: Toyota vs Chrysler Used to display and compare n<u>umerical</u> <u>data</u> by spreading into equal intervals

*Bars must touch!

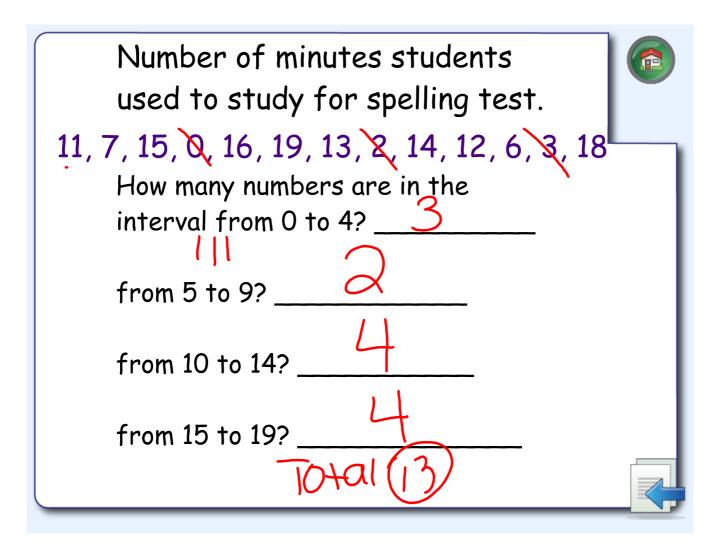
Steps for Creating a Histogram
1. Construct a frequency table

Intervals must be the same size
Intervals extend to cover all possible values of data
Have at least <u>4</u> intervals

2. Graph the frequencies

Draw and label vertical and horizontal axes
Draw a bar for each interval
*Bars are drawn with an equal width
*Bars should touch

3. Give the graph a title



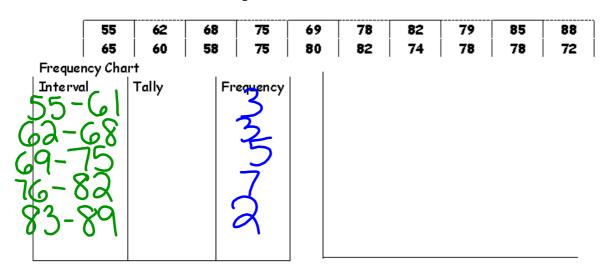
Name:	Class:	Date:

<u>Histograms</u>

Histogram:

Constructing a Histogram

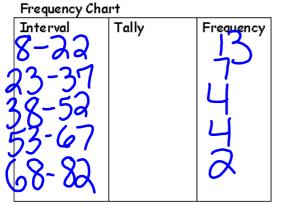
Mrs. Pittman gave her class a history test. The class of 16 students had the following scores: 75, 80, 65, 80, 95, 85, 85, 80, 90, 80, 70, 85, 90, 70, 85, 70. Construct a histogram to represent this data. Frequency Chart Interval Tally Frequency 79-78 NII Frequency 79-93 NII Frequency 79-94 NII Frequency 79-95 NII Frequency 70-95 NII Frequency Listed below are the daily high temperatures (°F) for the first 20 days of April. Choose appropriate intervals to group the data, make a frequency table for the data, and construct a histogram for the data.



2. Thirty people in Max's neighborhood participated in a Walk-A-Thon fundraiser. The ages of the walkers were as follows:

1	.2	8	32	35	15	47	9	15	52	55	70	18	36	29	12
1	1	16	45	44	19	62	60	8	23	27	10	34	74	13	59

- a. Make a histogram for the set of data.
- b. Determine the mean and median for this data set.
- c. Explain how the median for this data relates to the graph of the data.
- d. If the seven youngest participants did not walk and seven members of the Golden Oldies Club (over 70 years of age) took their place, how would this change the graph of the data? Determine the mean and median for this new data set.



Listed below are the daily high temperatures (°F) for the first 20 days of April. Choose appropriate intervals to group the data, make a frequency table for the data, and construct a histogram for the data.

