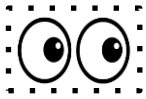


### Display and Interpret Dot Plots and Line Plots



**Dot Plot:** A graph (plot) that shows the shape of a data set by showing one dot above each corresponding number on the graph.

**Line Plot:** A graph (plot) that shows the shape of a data set by showing one “x” above each corresponding number on the graph. It is identical to a dot plot but this graph uses an “x” instead of a dot.

**Tally Marks:** Marks used to organize a large set of data. Each mark shows one value. Tally marks are often shown in a table or a t-chart.

1		6	
2		7	
3		8	
4		9	
5		10	

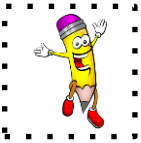
**Frequency Chart:** a chart created from a tally chart when you count the number of tallies in each column and write a chart showing the frequency of each response.

EX:

Collecting data		
Tally chart		
Type of vehicle		Frequency
Bike		10
Motor bike		6
Car		22
Truck		7
Bus		4

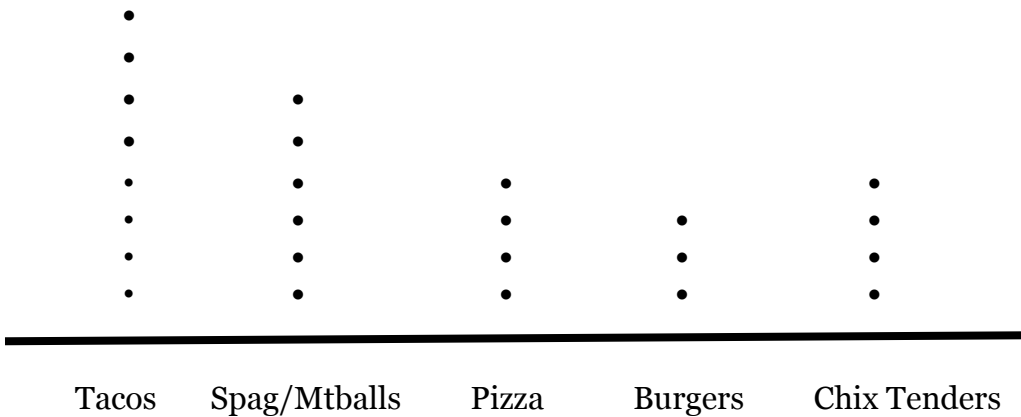


**Goal:** I will learn to analyze data found in dot plots, line plots, and circle graphs.



Ex: Twenty-five Blake sixth graders were asked, “What is your favorite dinner?” Here’s a dot plot of their responses:

**Favorite Blake Dinners**

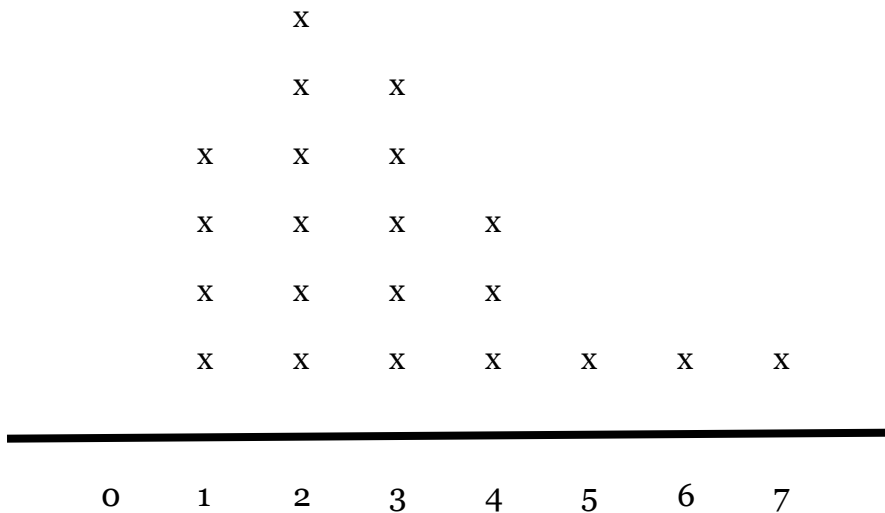


1. Which dinner is the favorite of those polled?
2. Tacos are how many times more popular than burgers?
3. What are two facts you can find in the shape of this data set?
4. Do the two least popular choices combined equal more than the most popular?
5. How many observations are there in all?



Ex: An Advisory in Blake was asked, “How many children are in your family?”  
Here’s a dot plot of their responses:

**Number of Children in a Household:**



1. How many students responded 3?
2. How many students responded more than 4?
3. What are two facts you can find in the shape of this data set?
4. Why did no one answer “0”?
5. How many observations are there  
in all?