Section 2.1 – Types of Graphs

- Graphing provides us with a way of visualizing DATA
- We will discuss a few here and put more focus on Bar/Line/Circle Graphs

The first three we will look at are:

Pictographs: A way of showing data using images

Pictographs have been used since the beginning of human civilization. Examples have been found as early as 3000*BC* in Egypt and Mesopotamia.

Favorite cookie				
Cookie	Number of students			
Peanut butter				
Chocolate chip				
Ginger snap				
Animal cracker				
Each 🛑 = 2 cookies				

Histograms: Similar to a Bar Graph, made up of bars of info that represent continuous data,

broken into bars that represent groups of ranges

Histograms, as a bar graph, is a way of showing information that represents continuous data without having to use a line graph.



Infographic: Graphic representation of information, data, knowledge etc. They play a critical role in marketing and advertising.

Infographics focus heavily on images to catch attention and portray information clearly, they still involve written information, but the images help to get the message out



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The next three graphs we will look at in more detail.

Bar Graph: A graph of data, discrete in its topics, that represents the data using bars



Example: Graph the following data as a bar graph

Solution:

# of people	Favorite Colour
7	Red
5	Blue
12	Purple
9	Green



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Line Graph: A graph that shows data, represented continuously, which means there isn't a break in the data



Circle Graphs: The hardest to produce by hand. The data needs to be analyzed and broken down into a percentage, then the percentage needs to be multiplied by 360 so that we have partitions of the 360° circle. We start with an arbitrary radius and measure the corresponding angles from there.

Example: Given the following information, make a circle graph to display it.

# of People	15	10	4	2	7
Pets	Dog	Cat	Bird	Lizard	Other







Section 2.1 – Practice Problems

The following can and should be made of separate pieces of paper.

- 1. Create a Pictograph of your choice
- 2. Create an Infographic of your choice
- 3. Using the following date create both a Bar Graph and Circle Graph by hand

Students were asked what their favorite course was in school. The answers were as follows.

Math	Physics	Science	AutoBody	Band	Woodwork	Criminology
6	4	8	10	7	3	5