

**Don't mess with the beaker of toxic
acid and 4 coins sitting on the tables yet!!!**

Bell Ringer

1. What is the purpose of the Scientific Method?
2. List the steps of the Scientific Method
3. Define Controlled Variable
4. Define Manipulated Variable
5. Define Responding Variable

Joke of the Day:



DUDE

I'm JOKING you are NOT adopted !!!

Bell Ringer:

- Half Sheet of paper

- Write:

 - ◆ “Resting Heart Rate =

Wait for further instructions.....

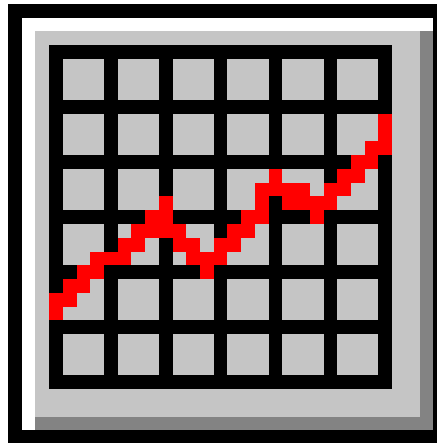
Joke of the Day:



STRESS

A GUY WENT TO A PSYCHIATRIST. "DOC," HE SAID, "I KEEP HAVING THESE ALTERNATING RECURRING DREAMS. FIRST I'M A TEEPEE, THEN I'M A WIGWAM. IT'S DRIVING ME CRAZY. WHAT'S WRONG WITH ME?" THE DOCTOR REPLIED, "IT'S SIMPLE. YOU'RE TWO TENTS."

Graphing Skills



Line Graph



A line graph is a graph
used to show change
over time!!

What can time be measured in???

Seconds - Minutes - Hours – Days -
Weeks - Months – Years - Decades -
Centuries - etc.

When to use a line graph?

Would we use a line graph
in the following situations:

- To show how many people like pizza in this class? NO 
- To show how much it rained each month this year? YES- because months and years deal with time. 
- To show how many people live in Meridian, Idaho? NO

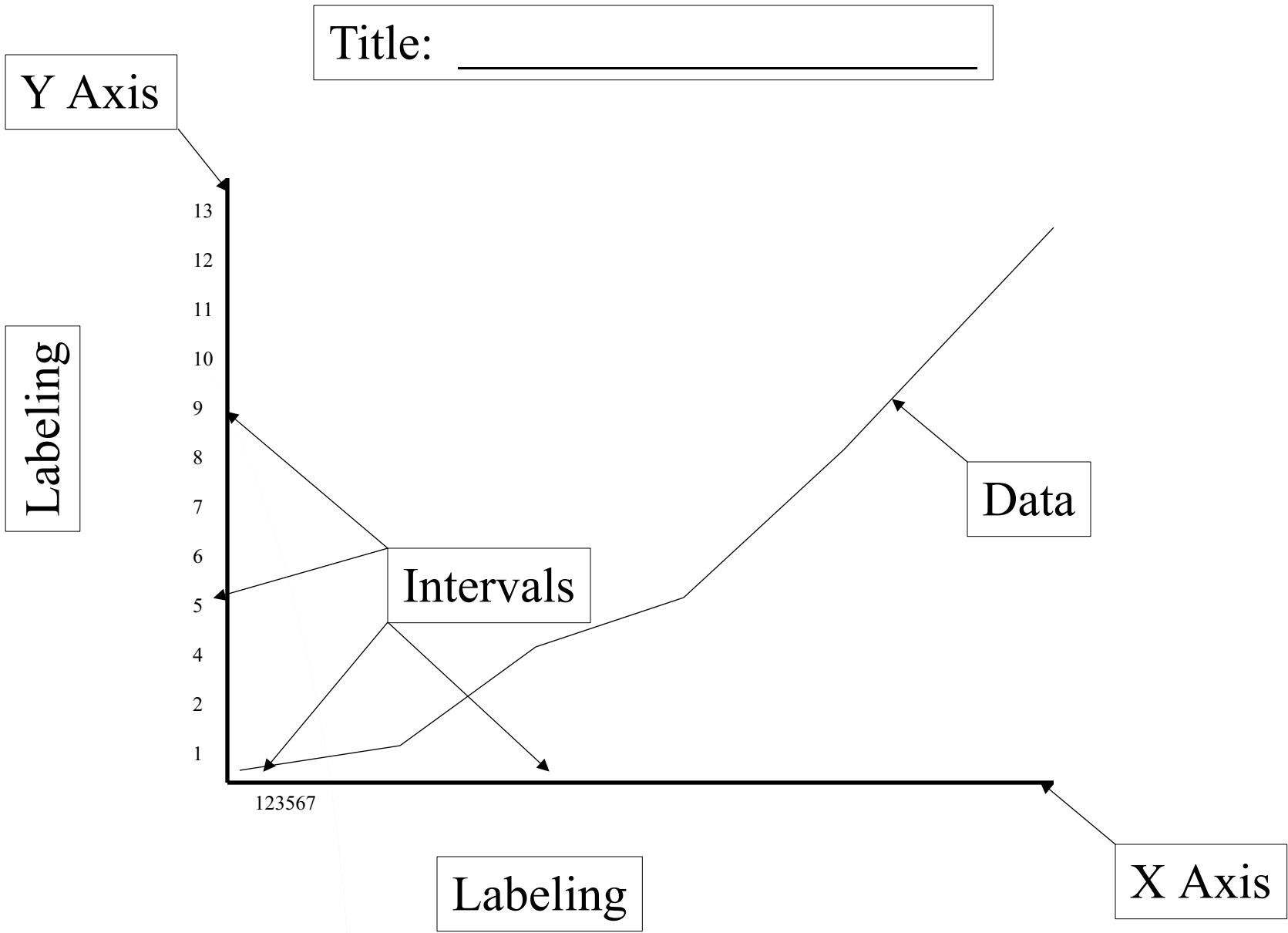
Birthdays?

Would we use a line graph to show when our birthdays are?

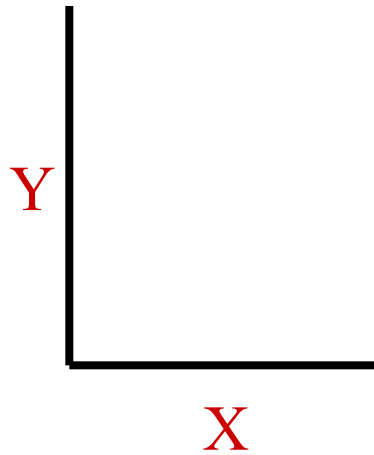


- Our birthday does deal with time doesn't it? (months/years)
- But, our birthday is constant, meaning it never changes.
- A line graph shows change in time, so we would not use it for this type of graph.





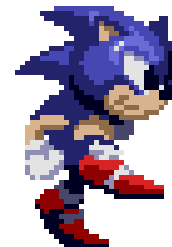
How do we make a line graph?



- A line graph ALWAYS has a title!
- A line graph has two different axis's
- An axis is either the horizontal line (called x) or the vertical line (called y) that form the base lines of a graph.

X-axis and Y-axis

- When you are making a line graph, the x-axis is always horizontal, and the y-axis is always vertical.
- The x and y-axis usually starts with zero on a line graph
- It is important to make sure that the intervals on our y-axis are always equal.
- What do I mean by this?



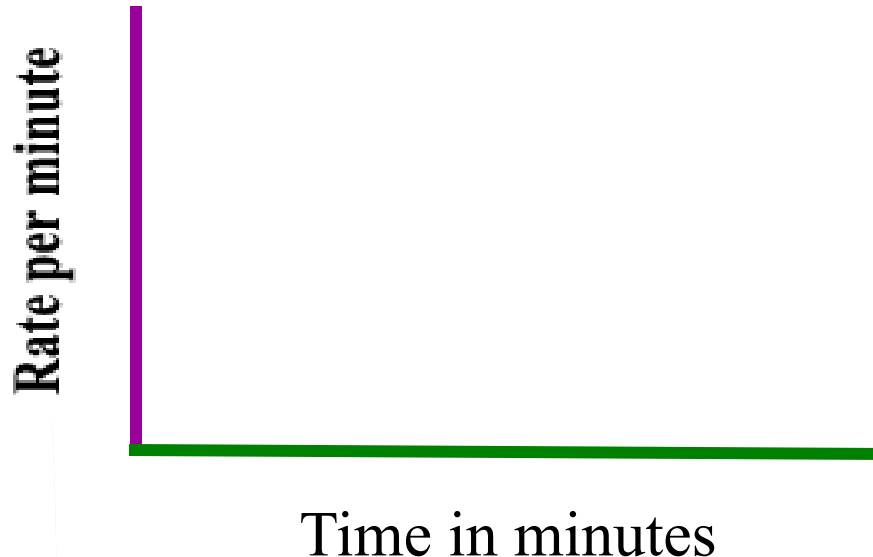
Intervals

- When we are setting up a line graph, we need to decide what intervals we want to use.
- If we are graphing the temperature for a year, do we want to put 365 days on the graph, and 100 different temperatures?
- When we see a horizontal flat line, that means that there was no change during a specific time period.



Plotting a Line graph

- When we are plotting a line graph, it is important to read what information is on each axis.
- There must be a label on each axis that describes the information.
- Much like a bar graph, we look at the x-axis first in order to plot our points.



What is a Bar Graph?

Used to compare the amounts or frequency of data.

Title: _____

Y Axis

Labeling

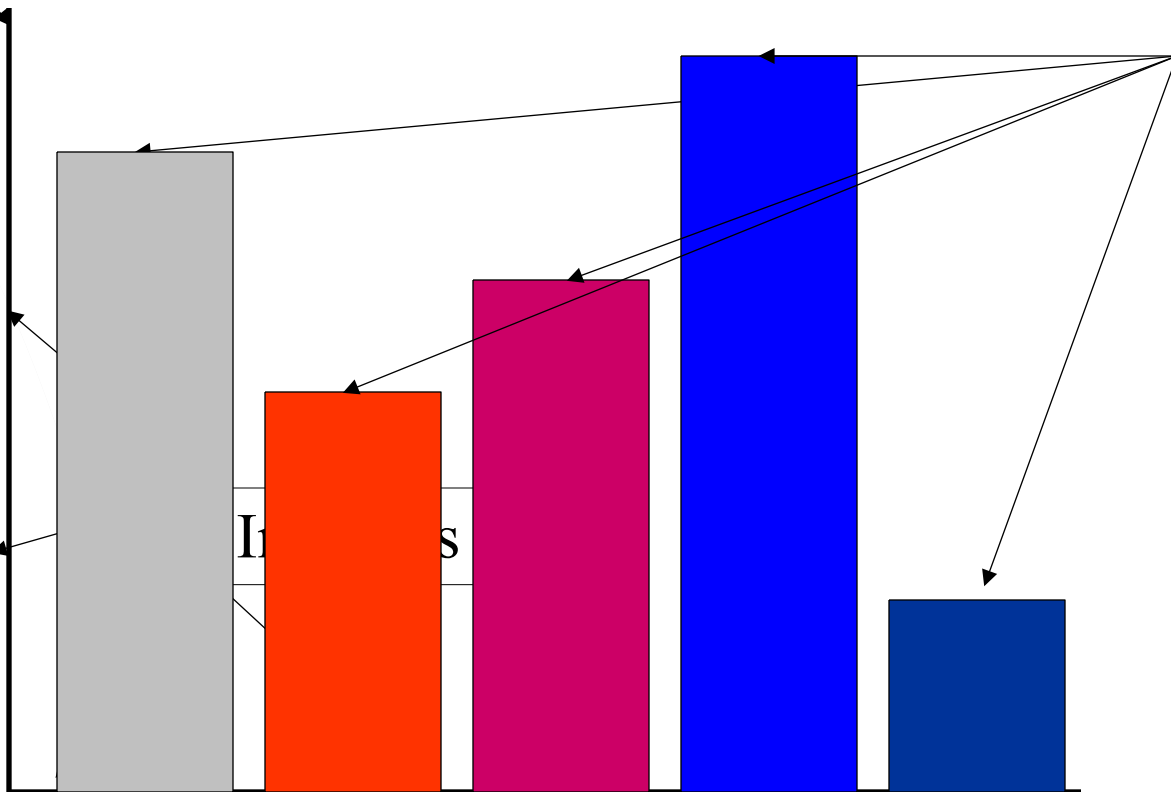
13
12
11
10
9
8
7
6
5
4
3
2
1

12 3 5 7

Labeling

Data

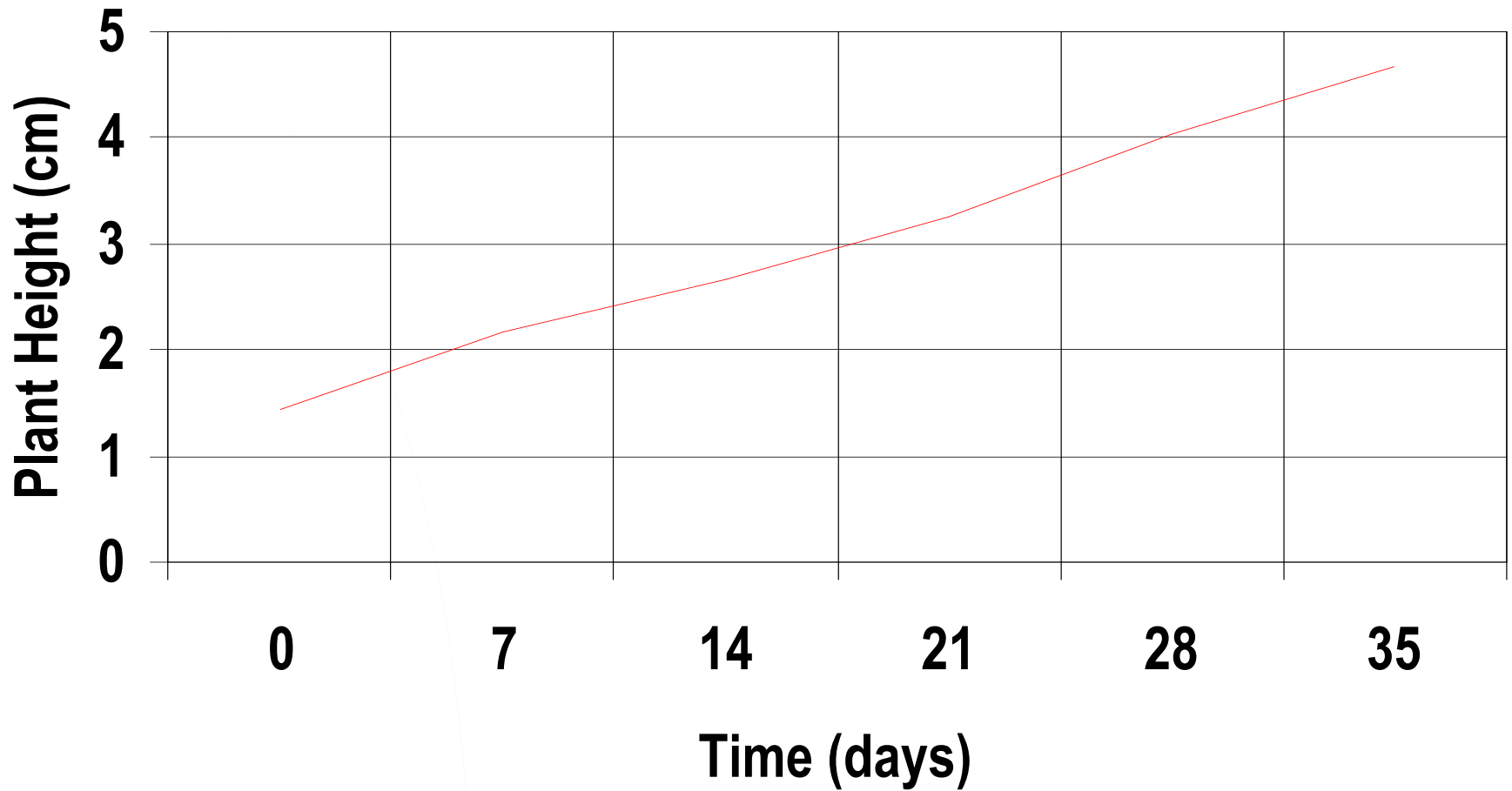
X Axis



Graph the following information. Which type of graph will you use?
Be sure to have a title, proper labeling, accurate data, and appropriate intervals.

Time (Days)	Plant Height (cm)
0	1.43
7	2.16
14	2.67
21	3.25
28	4.04
35	4.67

Plant Growth



Graph the following information. Which type of graph will you use?
Be sure to have a title, proper labeling, accurate data, and appropriate intervals.

Student Name	Shoe Size
Scott	10.5
Audrey	6
Levi	14
Lindsey	8
Butch	9
Alexis	5.5

Shoe Comparison

