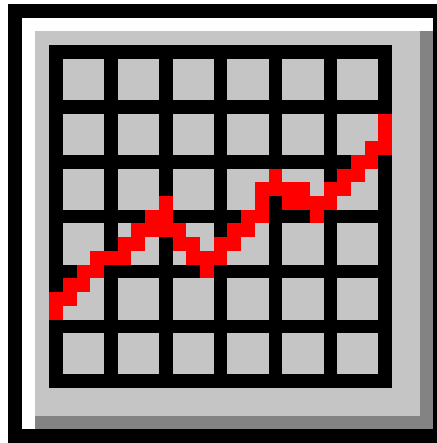


Graphs



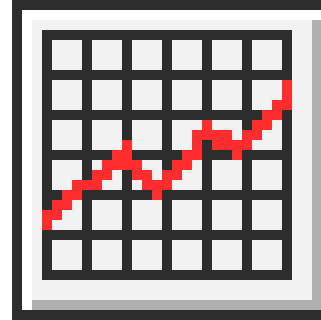
Today I want you to help me make a graph.

★ I want to make a graph that shows the change in temperature throughout the day yesterday.

★ What kind of graphs could we make to show this?

Line Graph!!

Bar Graph vs Line Graph



- **What is the difference between a bar graph and a line graph?**

Line Graph

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

Time can 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**



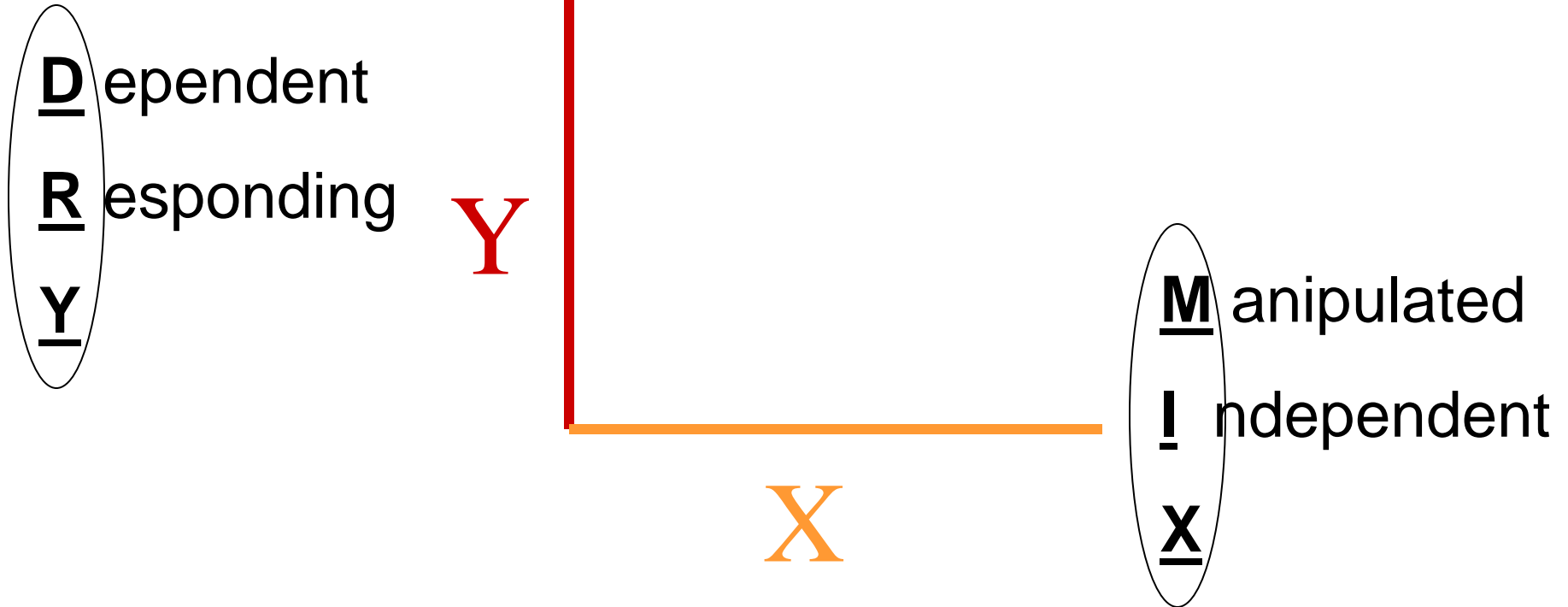
•To show how much it rained each month
this year? **YES-** because months and years deal with time.

•To show how many people live in
Bellmore? **NO**



YOU TELL ME....

What color is the y-axis?

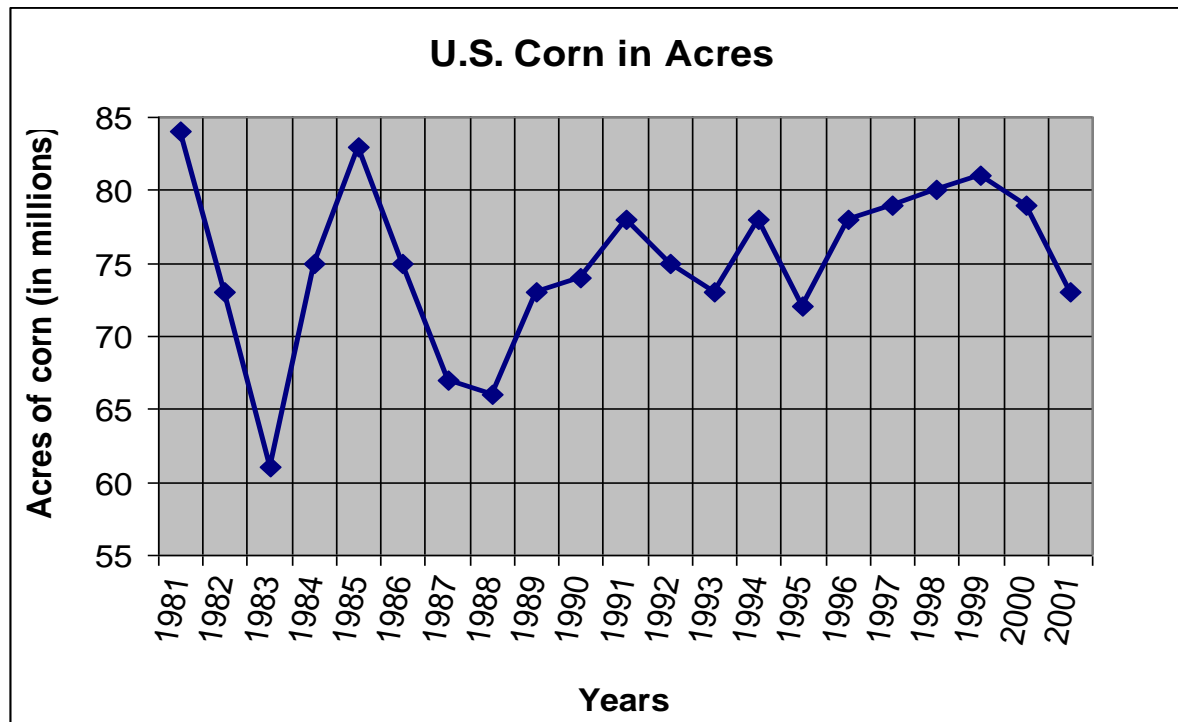


What color is the x-axis?



Line Graphs

- comparison between 2 variables
- show how the independent v. affects the dependent v.

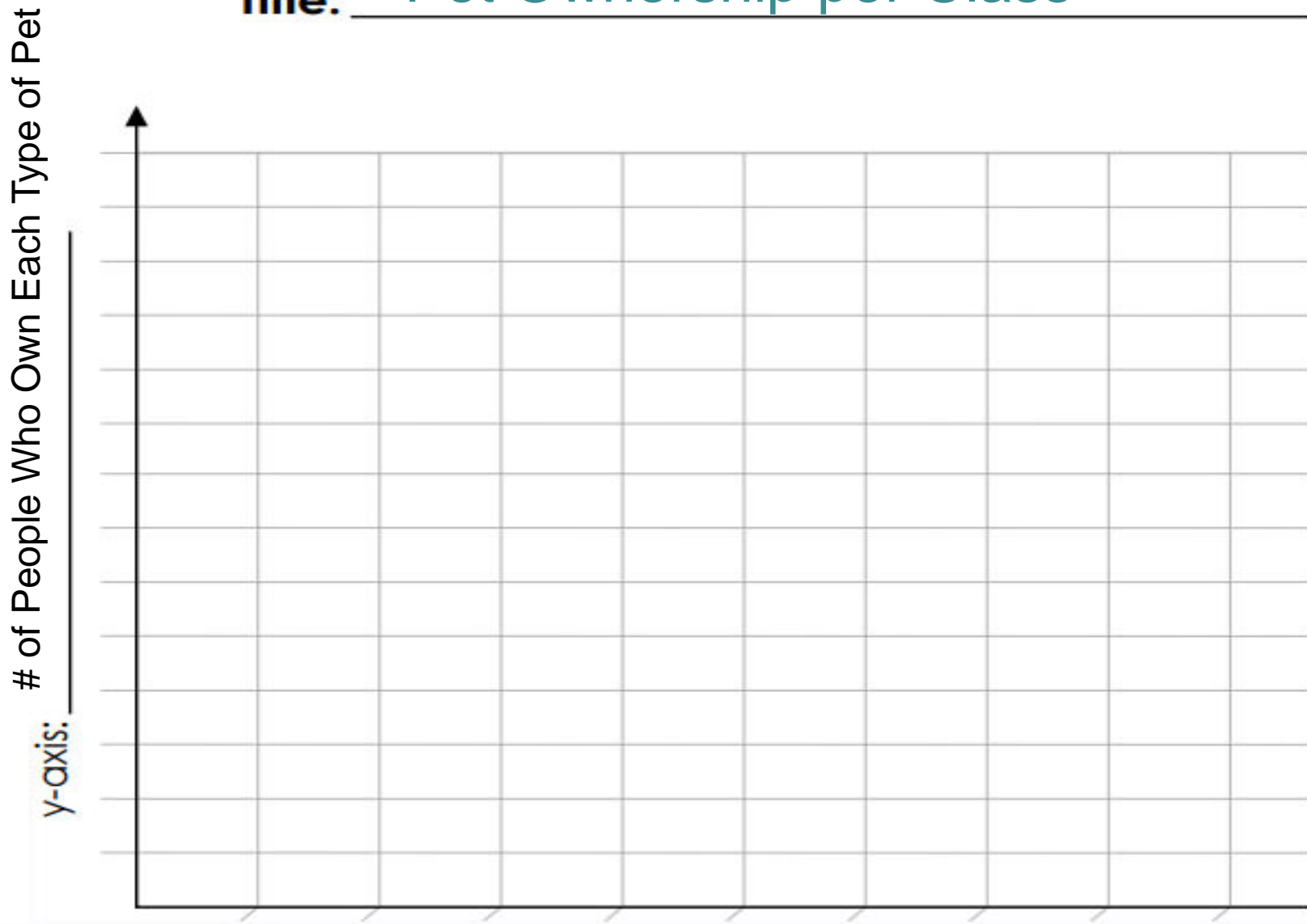


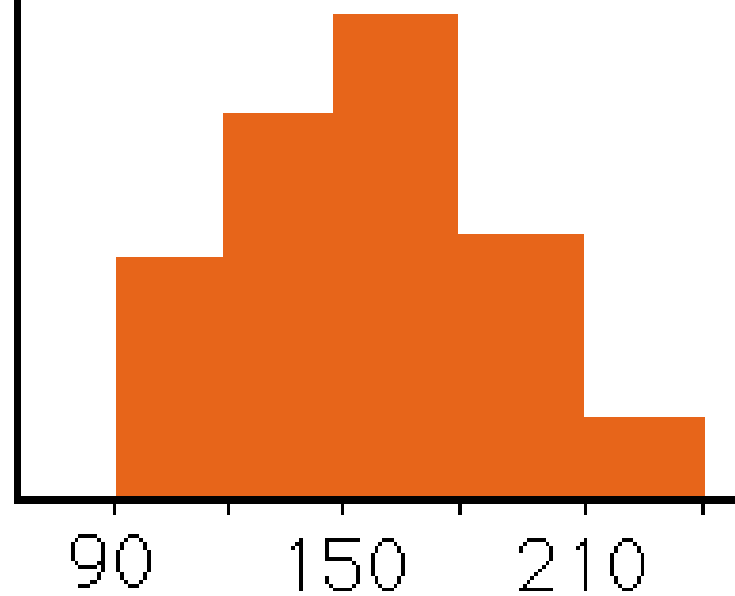
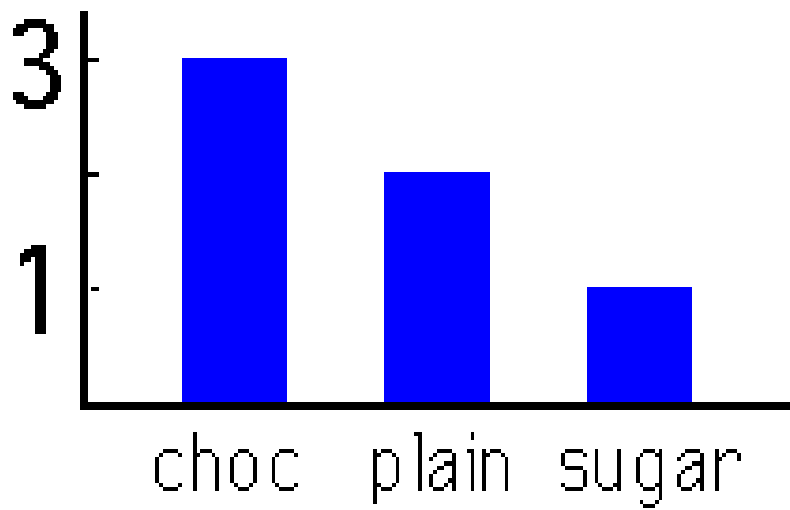
Bar Graphs

- Are descriptive and compare amounts or categories
- Are best for comparisons



Title: Pet Ownership per Class





Bar Graph

Presents

“categorical data,”
data that fits into
categories

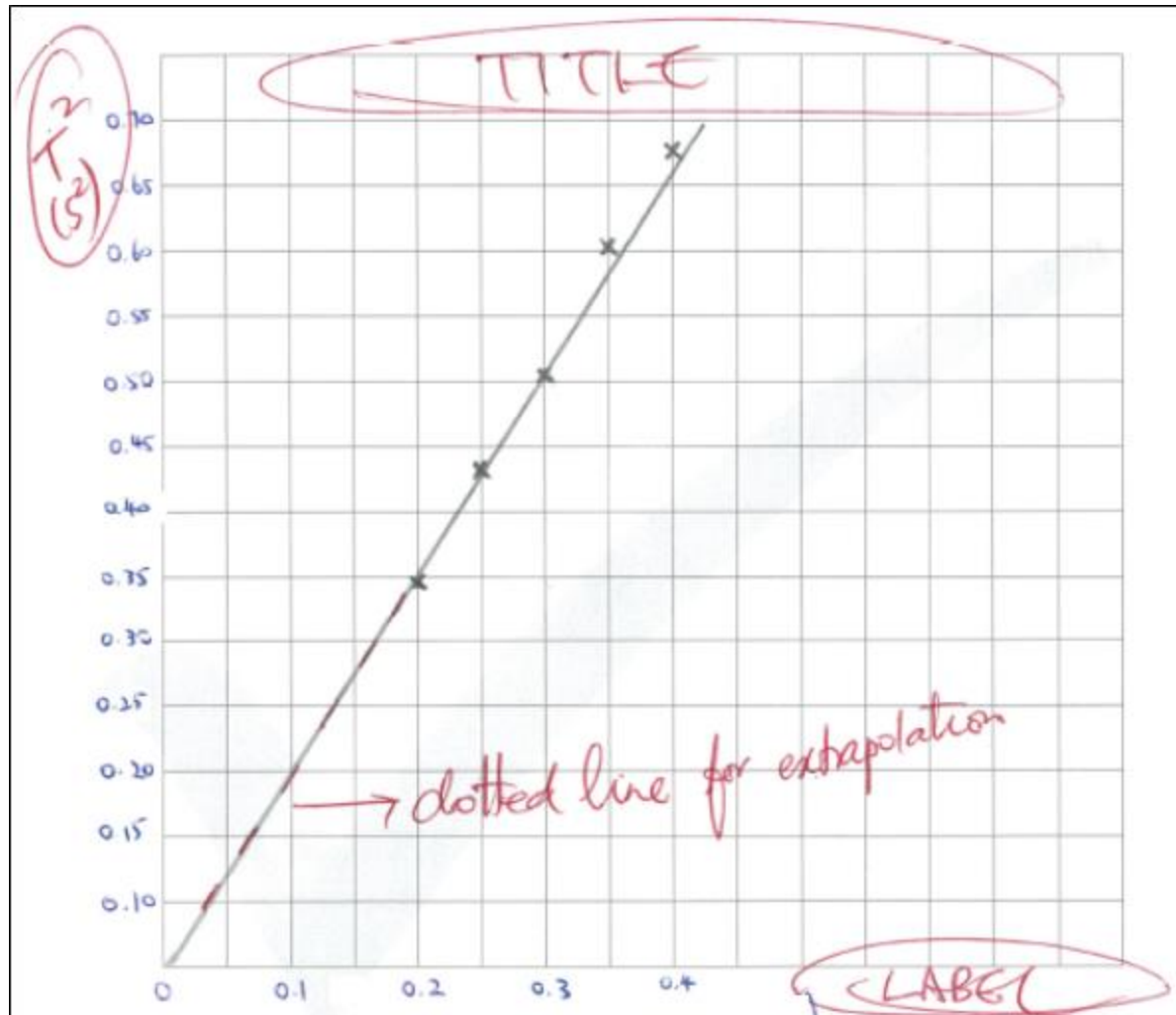
Ex. Type of donut

Histogram

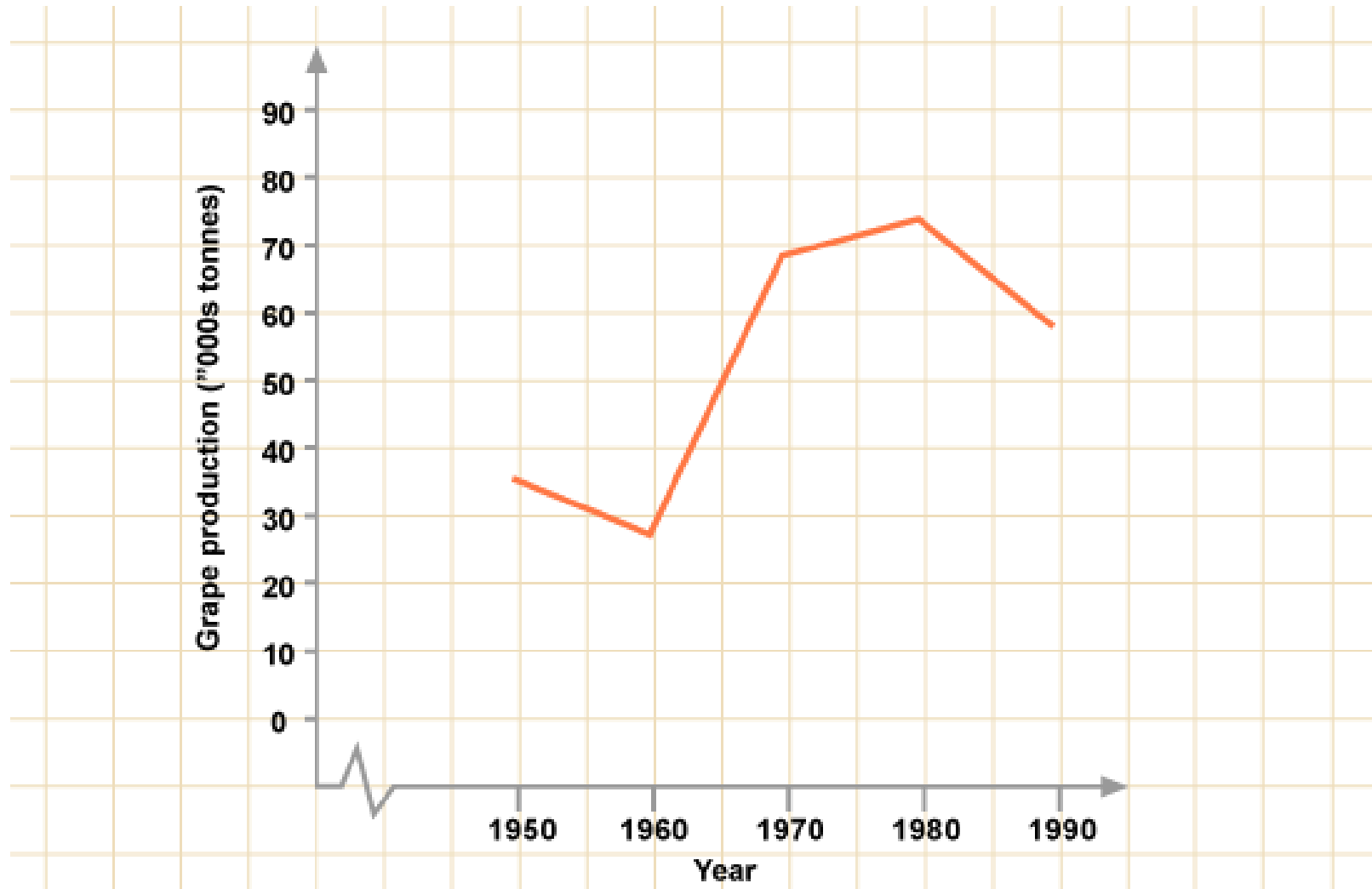
Presents “continuous
data”, numbers be any
value in a certain
range Ex. weights of
individuals

Graphing Rules to Live By!

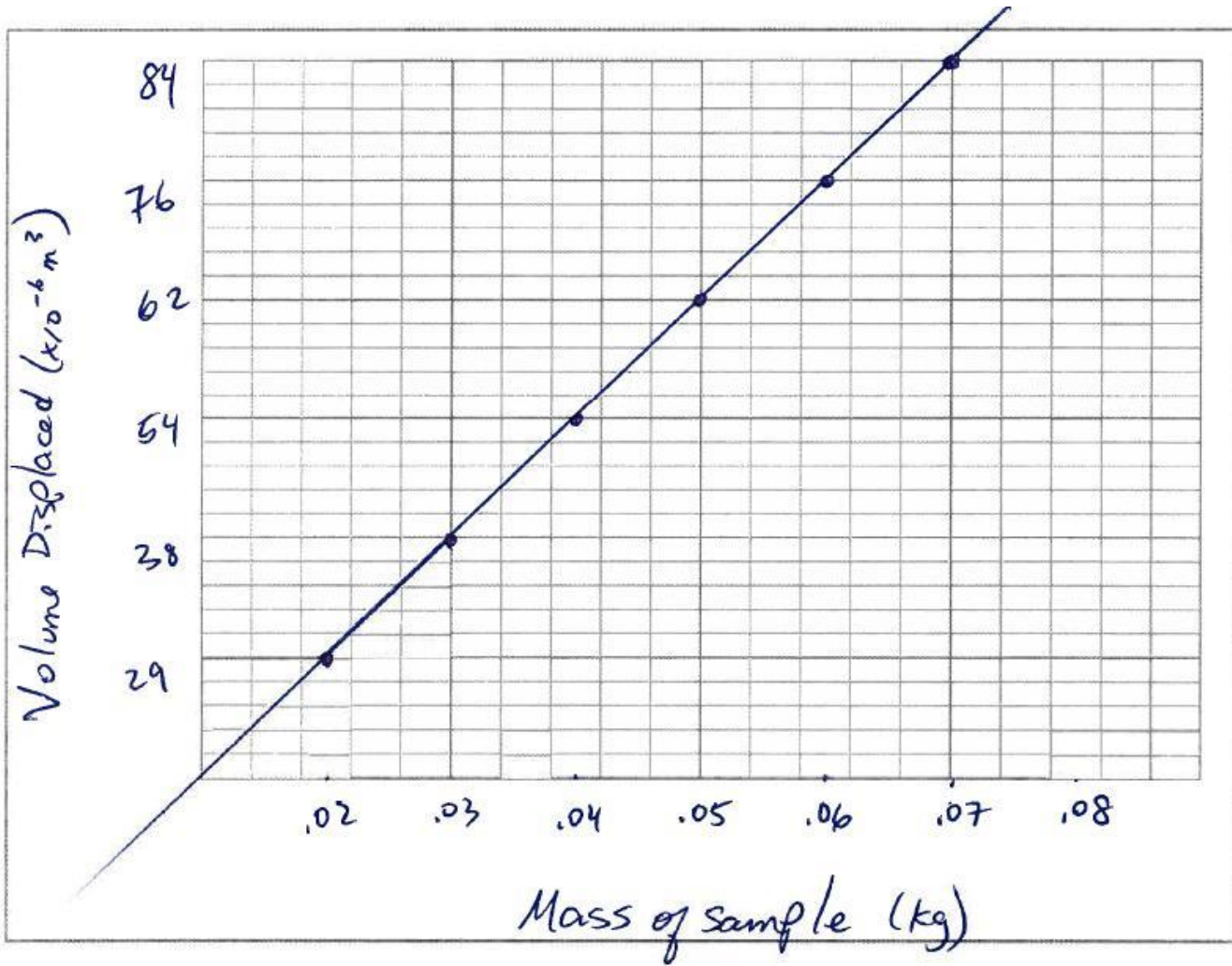
1. Label each axis (include units) & add title



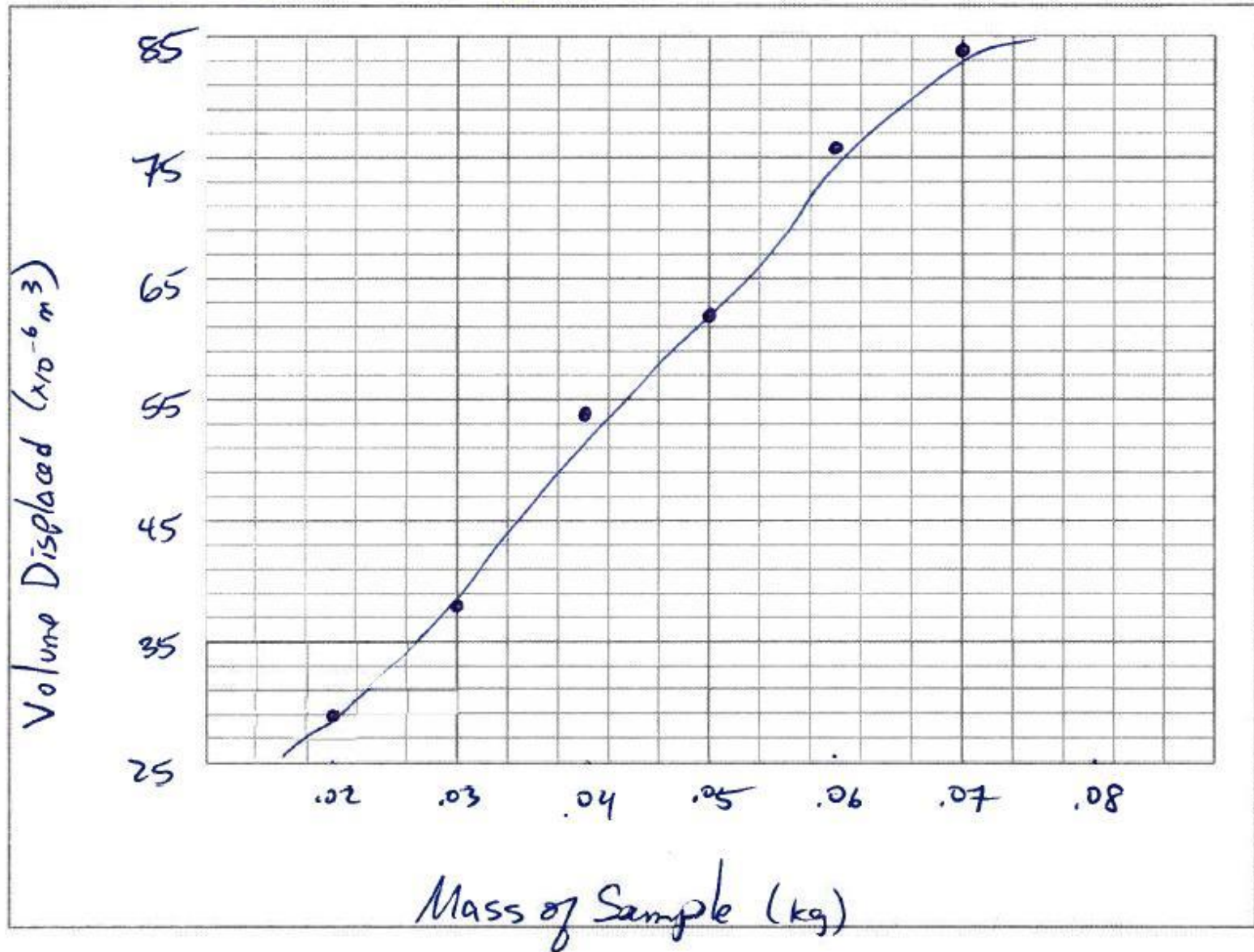
2. Origin does **NOT** need to be 0, but it can be
3. Avoid using a break (lightning bolt) on axis



4. Use consistent scale, each box = same value
5. Use the smallest scale that fits the space given, ex. try 1s, 2s, 5s, 10s, 20s, etc.



6. Connect points with a straight edge, no curves



7. Do **NOT** connect line graph to y-axis unless given that data point to plot

