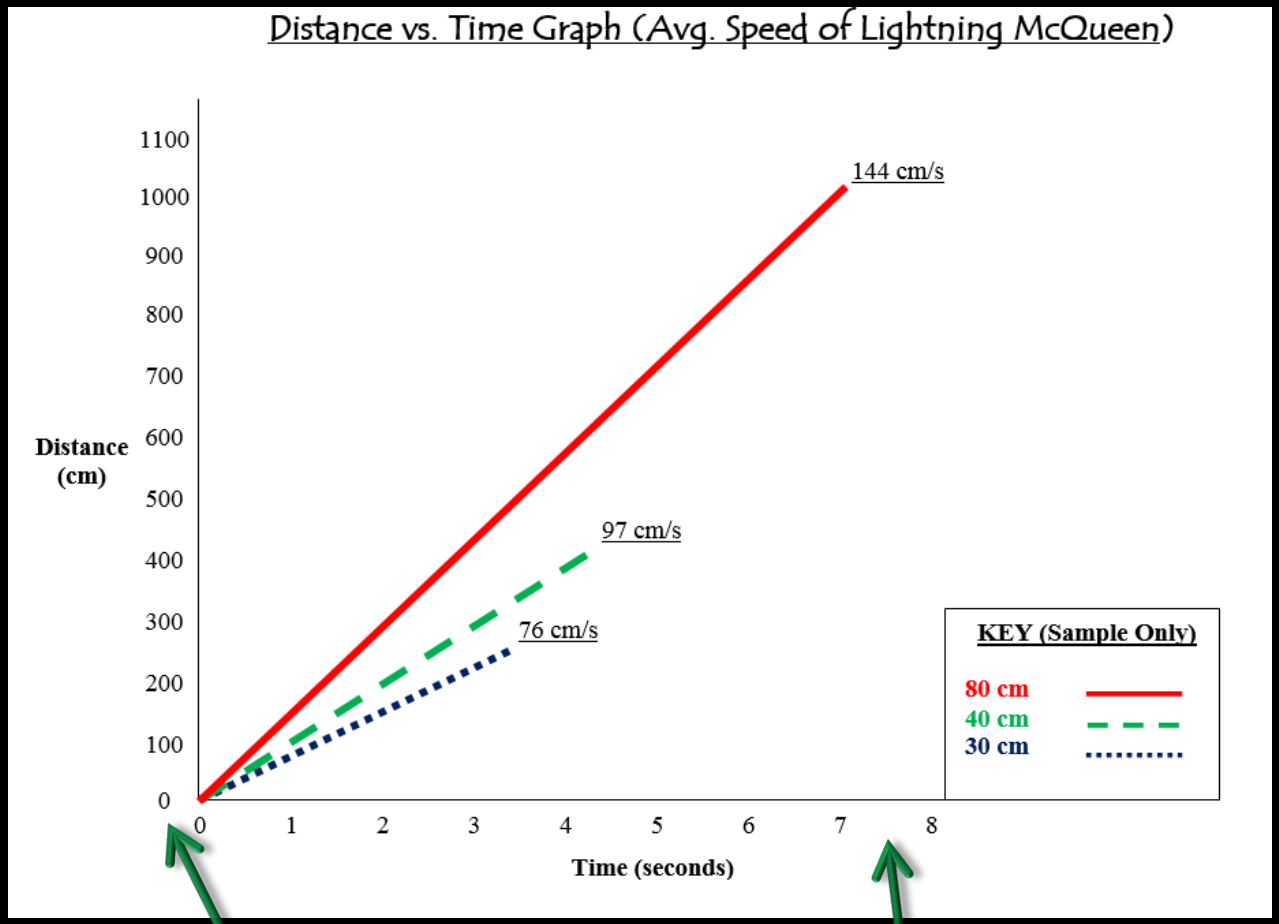
SULTAN Graphing

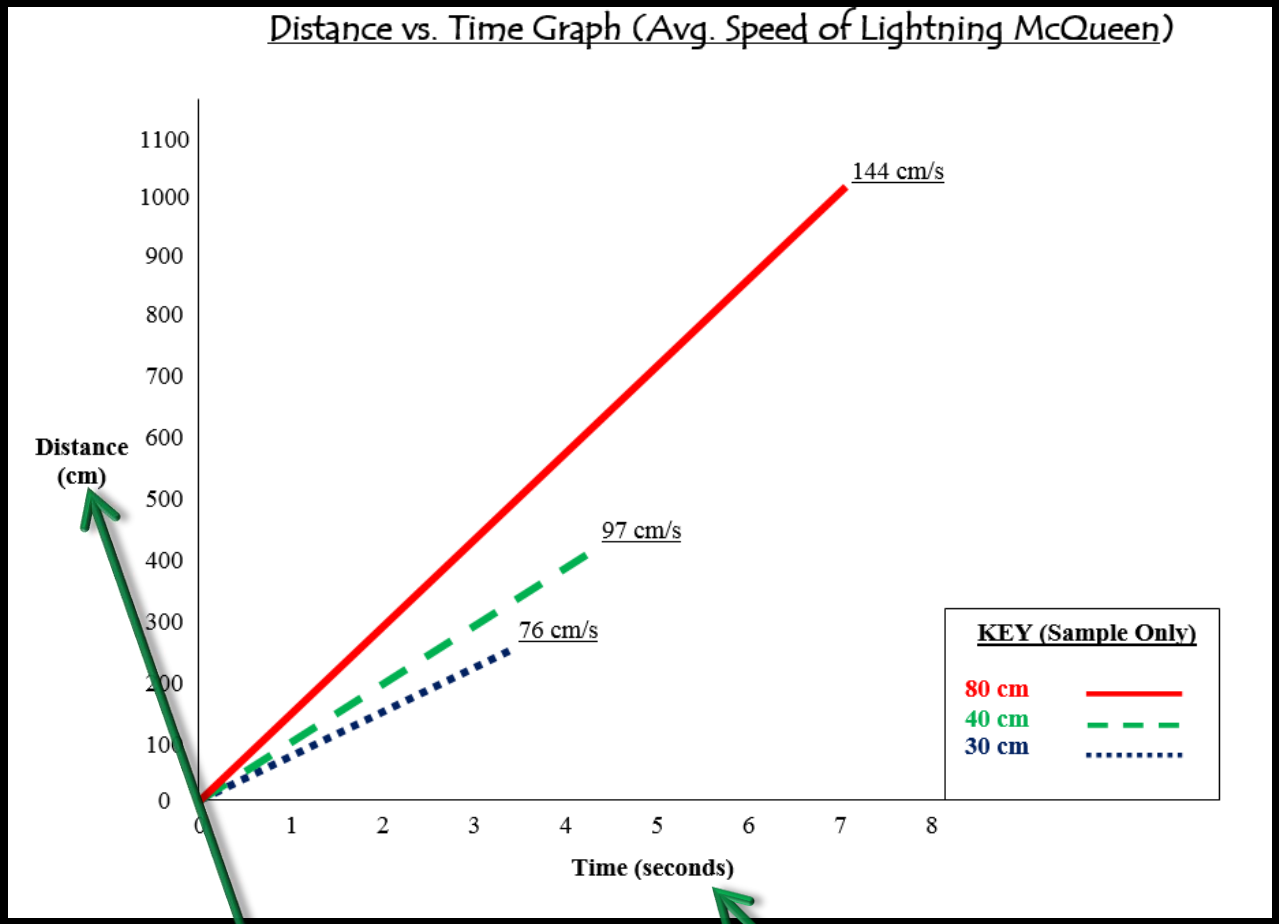
- Scale
- Units
- Labels
- Title
- Accuracy
- Neat

Scale



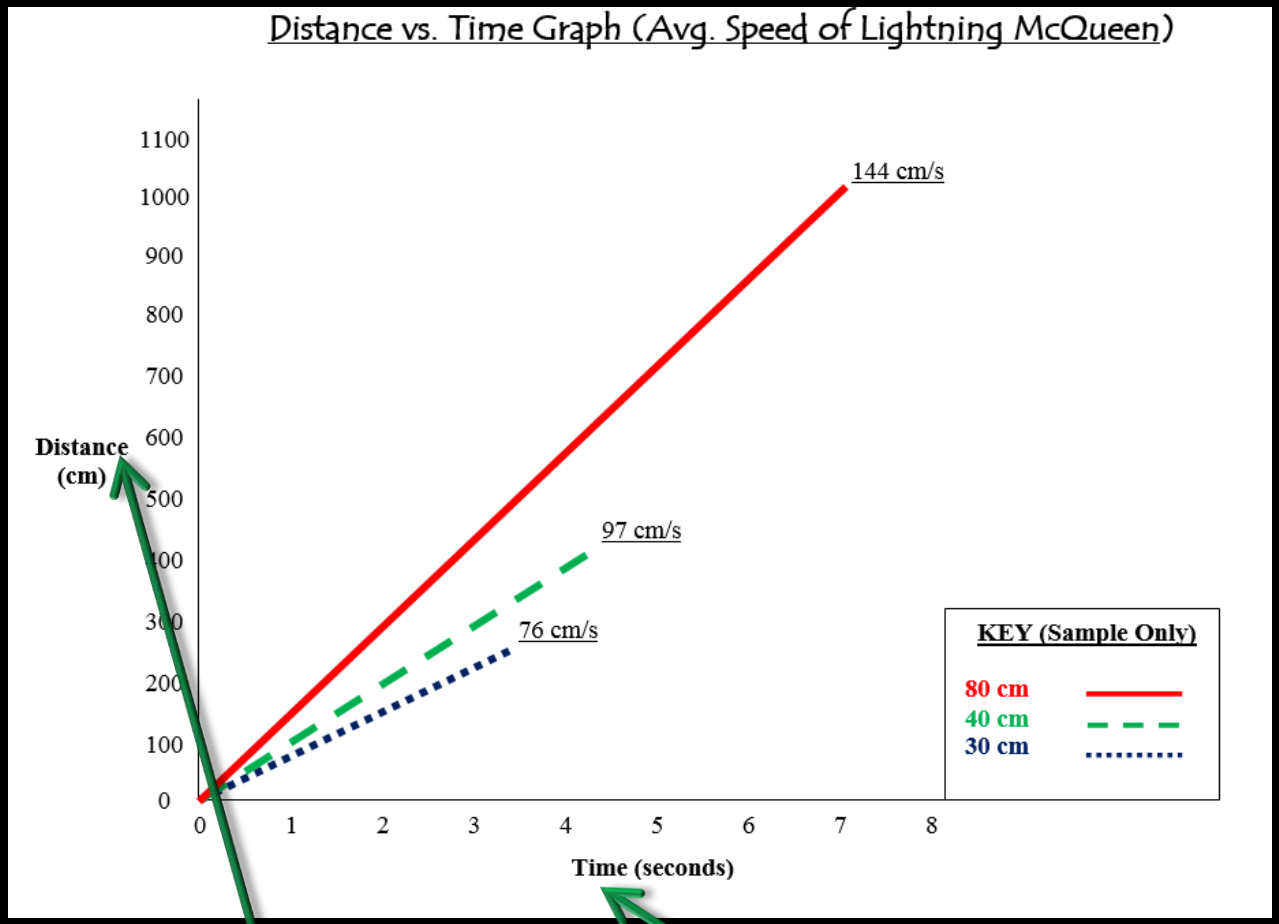
Use the correct scaling

Units



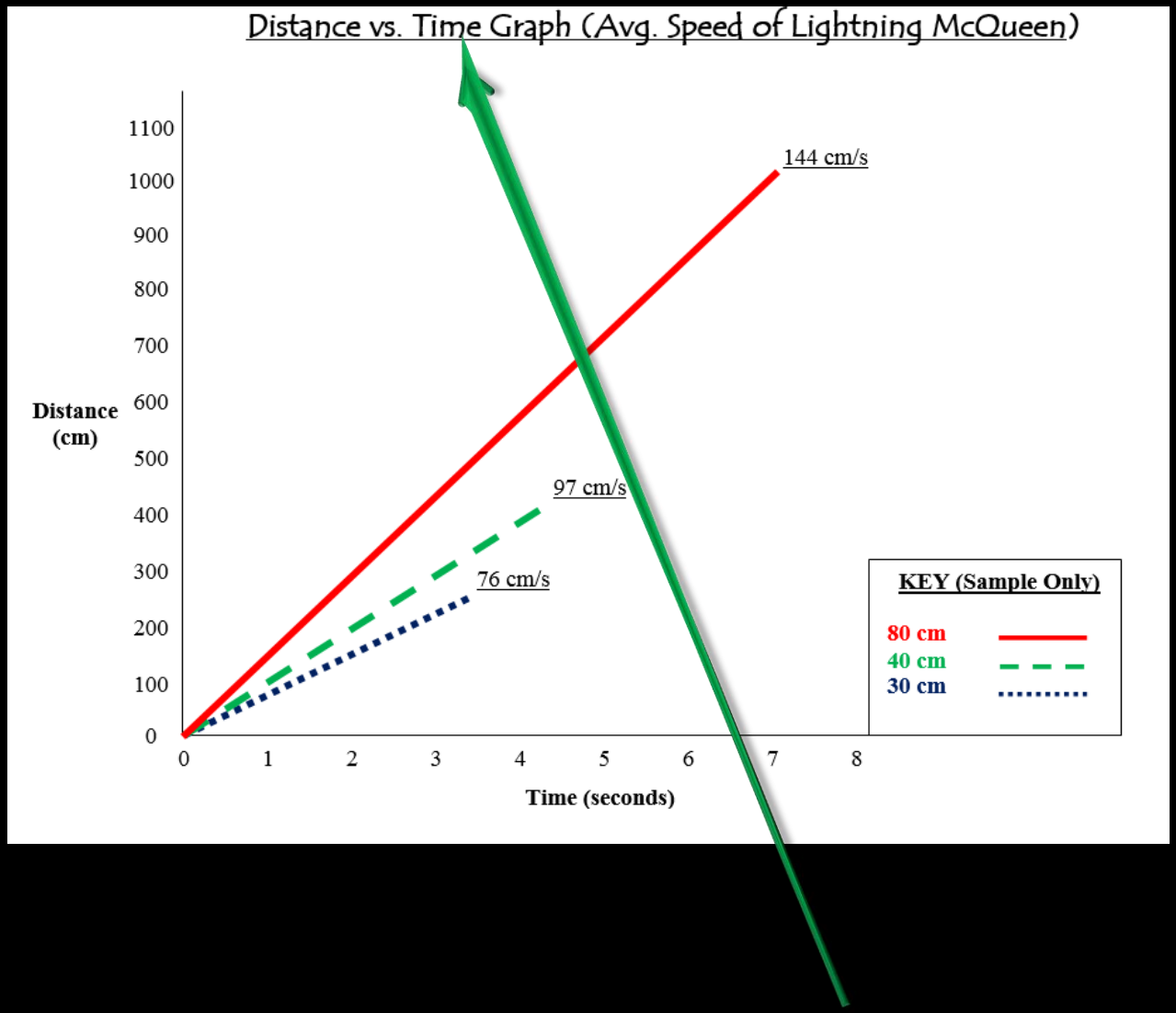
Write the units

Label



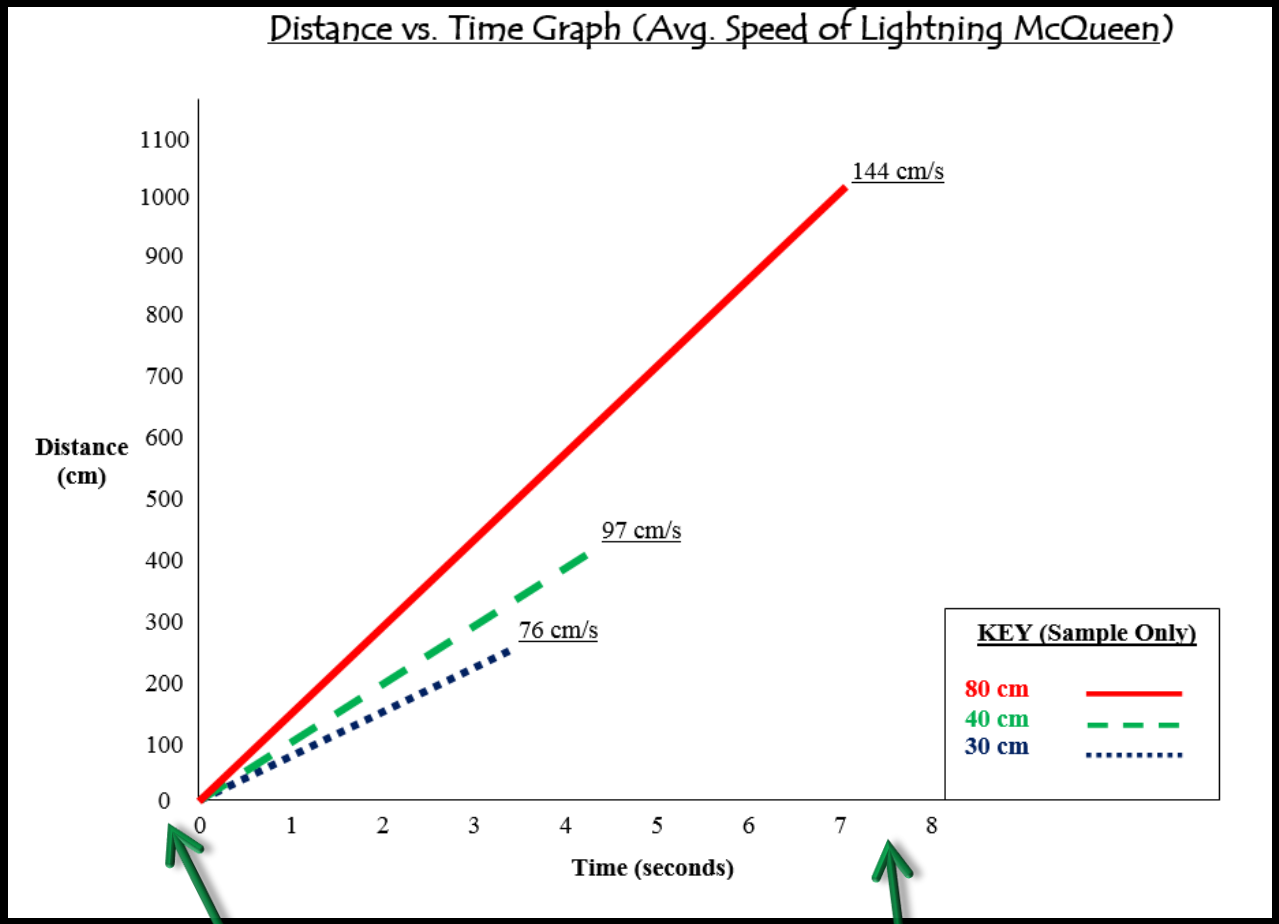
Label the y-axis and x-axis

Title



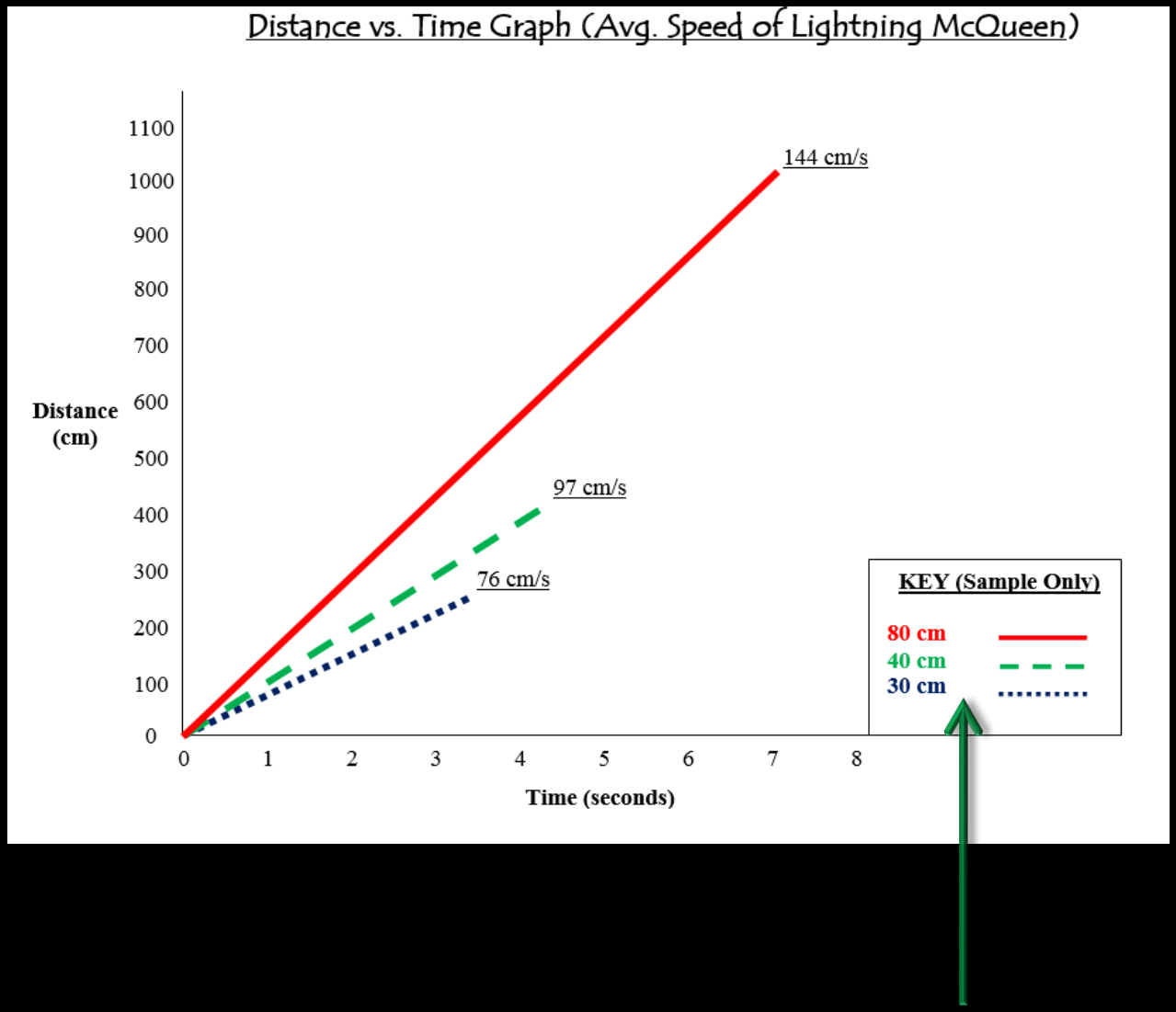
Create a Title that tells what the graph is about

Accurate



Make sure data is plotted accurately

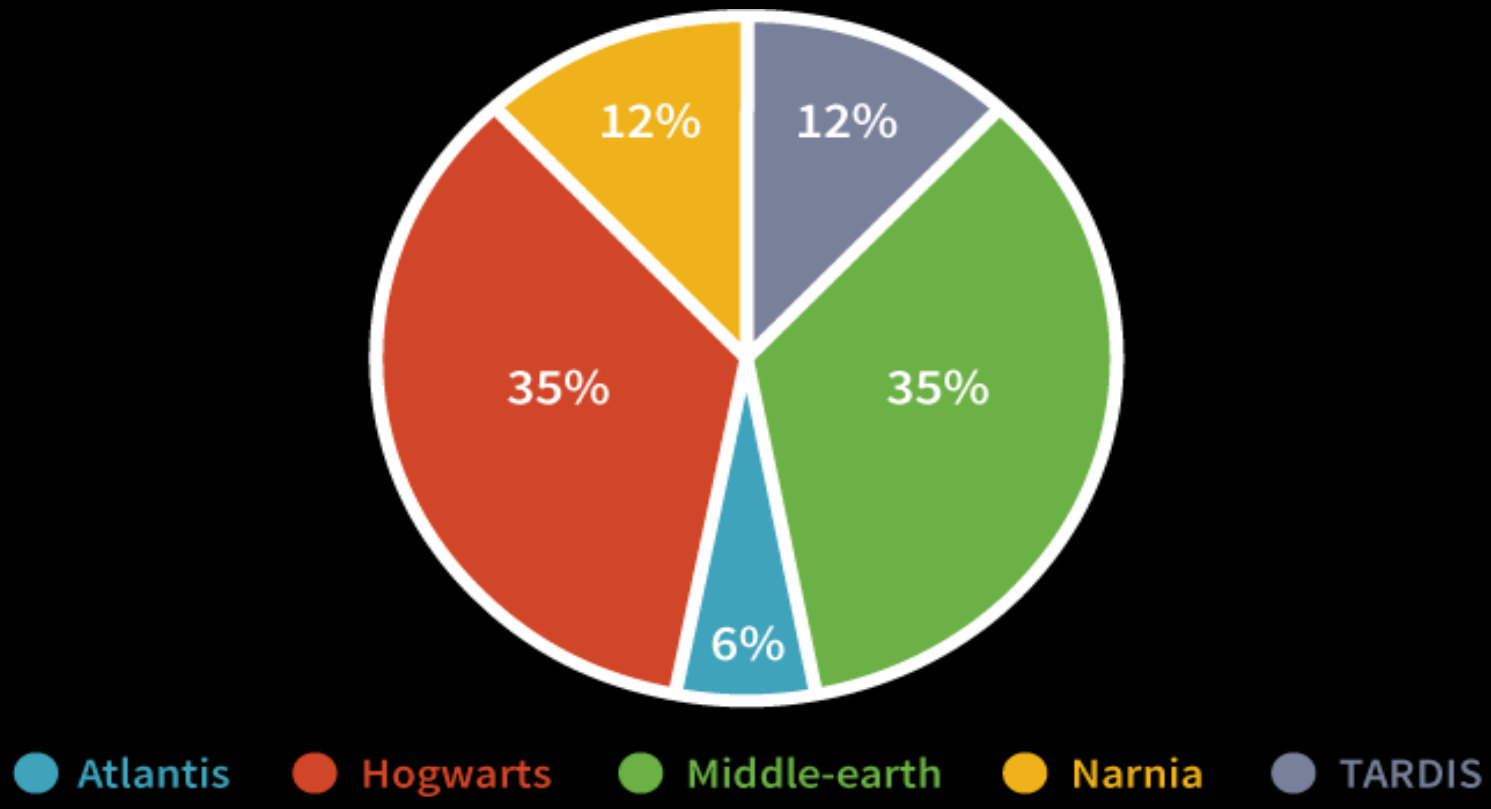
Neat



Make it look neat (straight lines, a key, color, neat)

Pie vs. Bar vs. Line?

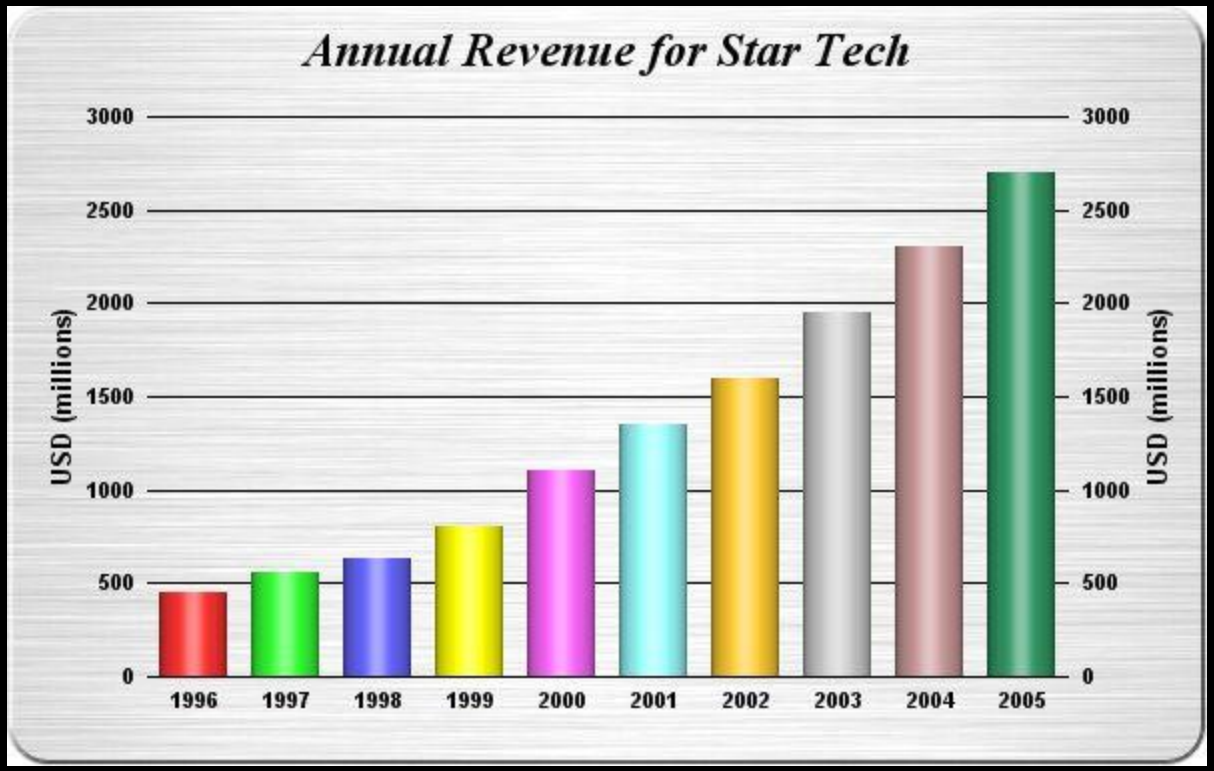
- **Pie** is used to show: **percent of the whole**



Source: https://infoactive.co/data-design/ch17.html

Pie vs. Bar vs. Line?

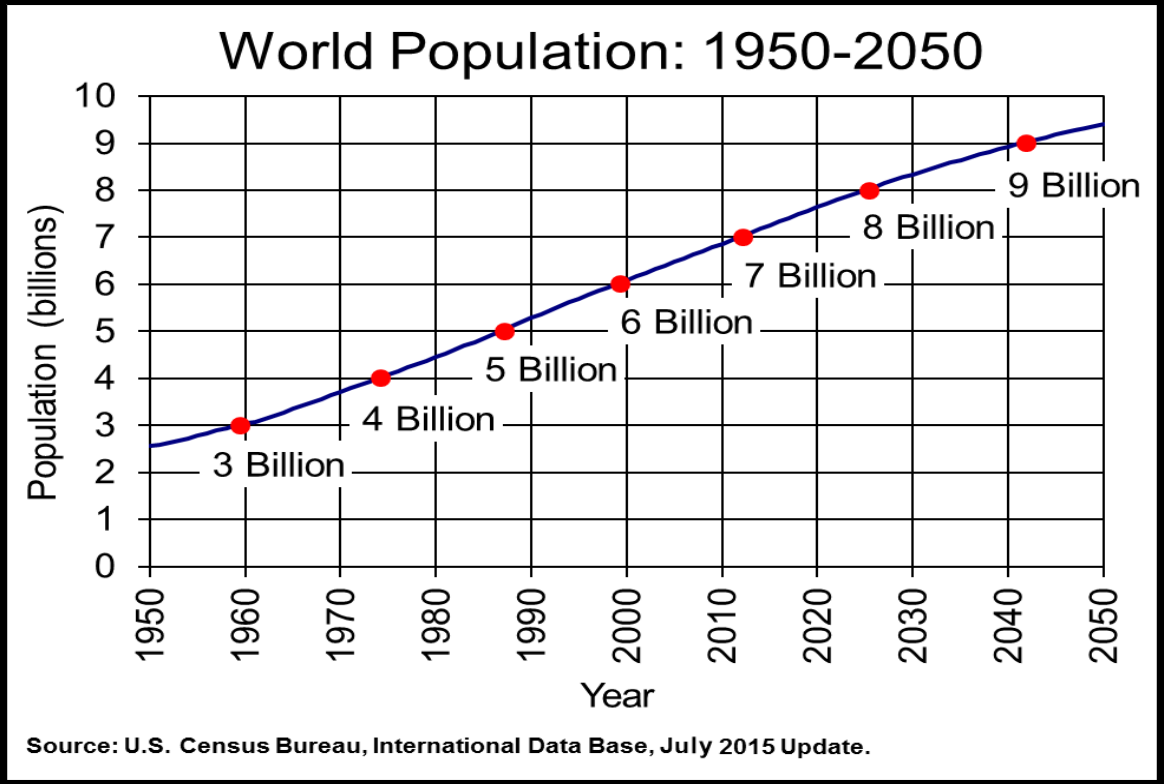
- **Bar** can be used to show: **how much**



Source: http://www.advsofteng.com/gallery_bar2.html

Pie vs. Bar vs. Line?

- **Line** is used to show: how stuff is related or trends (over some period of time)



Source: http://nwdistrict.ifas.ufl.edu/phag/2016/03/04/population-growing-but-us-farm-acreage-declining/

Keys to a Cool Graph

1. Make your graph **big** (at least ½ the page).
2. Draw **straight lines** (use your ruler).
3. Use a **proper scale** for distance and time.
    a. Use the **ENTIRE** graph area (not the lower left corner).
4. **Label** the **y-axis** and **x-axis** (**including units**).
5. Include a **title**.
6. Include a **key**. (*when necessary)

Done