Data Analysis / Charts

***Mathematics and Millennials – 6th***

## Basic Charts

**Interpretation of Basic Statistical Charts is essential!**

**Charts are visual illustrations of numeric data!**

**Bar, Line, Pie, Pictograph (images)**

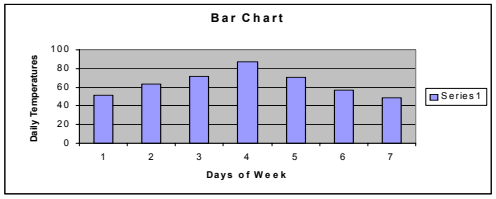
**What is the highest or lowest? What is average?**

**What is the difference between highest and lowest?**

## Charts: Bar

**Definition: A Bar Chart uses vertical/horizontal bars to compare various quantities or values.**

**Daily temperatures for week days in July. MS Excel!**

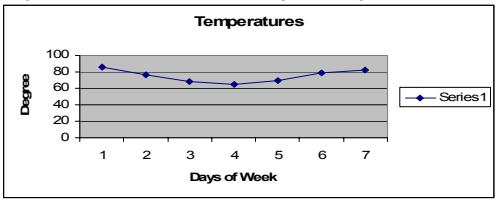


## Excel: Bar

Using MS Excel and starting at B5 enter 1,2,3,4,5! Hit Enter Key!
Select entered numbers! Click Chart Icon: top & middle of page.
Column Bar Chart is selected! Click Finish to continue. (?)
A Column Bar Chart appears! Note Bars, Gray & White regions!
Click a Bar! Click Gray region! Click White region!
*Small Black Squares mean Chart is selected! Click Delete!!!
Entered other numbers! Practice creating Bar Charts!
Try printing out a Bar Chart! Try copying it to a Word file!
Try grabbing a Corner Black Square & Dragging In and Out!
Imagine the engagement your students will experience!

## Charts: Line

Definition: A Line Chart uses connected points and and a line to visualize continuous quantities.
Daily temperatures for week days in May. MS Excel!



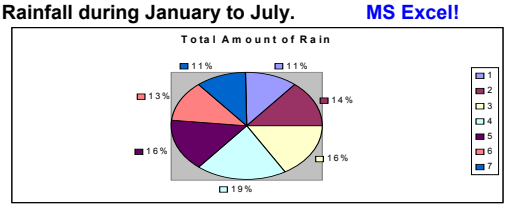

## Excel: Line

Using MS Excel and starting at B5 enter 1,2,3,4,5! Hit Enter Key!
Select entered numbers! Click Chart Icon: top & middle of page.
Click the Line selection! Click Finish to continue. (?)
A Line Chart appears! Note Line, Gray & White regions!
Click the Line! Click Gray region! Click White region!
*Small Black Squares mean Chart is selected! Click Delete!!!
Entered other numbers! Practice creating Line Charts!
Try printing a Line Chart! Try copying it to a Word file!
Try grabbing a Corner Black Square & Dragging In and Out!
Imagine the empowerment students will experience!

## Charts - Pie

**Definition**: A Pie Chart uses a circle to **compare** among parts of a whole and **compare** to a whole.

Rainfall during January to July. **MS Excel!**



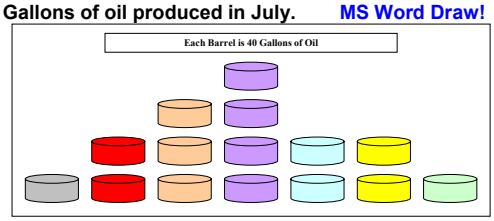

## Excel: Pie

**Using MS Excel** and starting at **B5** enter 1,2,3,4,5! Hit Enter Key!
**Select** entered numbers! Click **Chart Icon:** top & middle of page.
Click the **Pie** selection! Click **Finish** to continue. (**?**)
A **Pie** Chart **appears**! **Note Pie**, Gray & White regions!
Click **Pie**! Grab Pie **and** Drag In & Out! Click White region!
*Small **Black Squares** mean Chart is **selected!** Click **Delete**!
**Entered** other numbers! **Practice** creating Line Charts!
Try **printing** a Line Chart! Try **copying** it to a Word file!
Try grabbing a **Corner Black Square** & Dragging In **and** Out!
Imagine the **excitement** your students will **experience**!

## Charts: Pictograph

**Definition**: A Pictograph uses images to **compare** individual quantities and **compare** to total.

Gallons of oil produced in July. **MS Word Draw!**



## Word: Basic Charts - 4

Use MS Word! A Draw Toolbar has to be at bottom of Word page.
Create a rather large horizontal rectangular region at mid-page.
Just below large rectangular region, we will create a drum.
Now using the Oval tool, create a small (not tiny) horizontal oval!
At far right of Draw Toolbar is the 3D image creator! Just find it!
With oval selected (White Sqs)! Select some 3D images for drum!
Once drum has been created click & drag it onto rectangle area!
With drum selected! Hold Ctrl & Hit C! Hold Ctrl & Hit V!
A duplicate drum should appear! Click & Drag above other drum!
Continue Copy & Paste of drums until a Pictograph appears!

## Basic Charts

Okay! We have defined Charts and given Examples!

Make sure Students can do Definitions & Examples!

Activities will be provided for students to create

Basic Charts from directions to be drawn on plain

white paper! Not exciting but necessary to learn!

## Conclusion