



## Data Software and Statistical Analysis

### Purpose

To become Excel masters while learning statistical analysis!

### Why?

(It dwarfs Powerpoint and Word in usefulness, and is used extensively outside of high school, yet secondary students graduate with almost no knowledge of it).

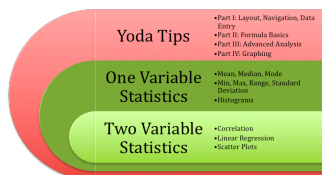
### Goal:

To start a solid base of knowledge upon which you can build for the rest of your life.

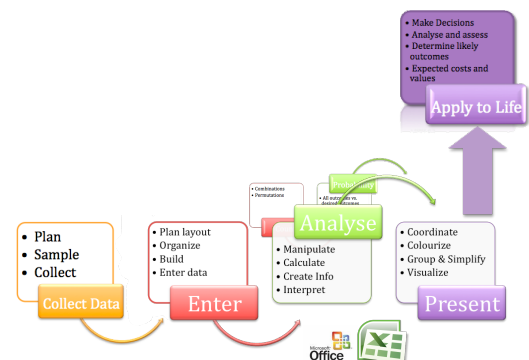
## Data Software and Statistical Analysis



In Word, start a note with these three sections.

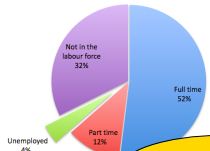


## What is Data Management?



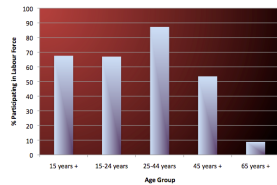
## Examples: What are we talking about?

Canadian Labour Force 2007

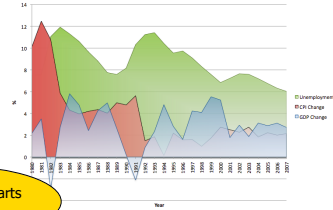


Great looking charts and graphs

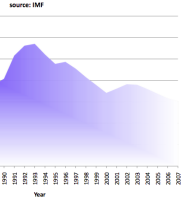
Canadian Labour Participation Rates



Canadian GDP, Inflation, and Unemployment



Canadian Unemployment Rate



BBB 4M1: Grade 12 International Business

Clear, user-friendly schedules, data forms, and calculation tables

**Boulton's Magical Mortgage Calculator**

Amount Borrowed: \$714,000  
Length of Mortgage: 30  
Interest Rate: 6.75%

Monthly Payment: \$ 6,420.00  
Yearly Payment: \$ 77,160.00

TOTALS: \$ 1,957,400 | \$ 443,400 | \$ 714,000

Year	Opening Balance	Payment (PMT)	Interest (INT)	Principal (PRN)	Ending Balance
1	\$ 714,000	\$ 77,160	\$ 48,195	\$ 28,965	\$ 685,035
2	\$ 685,035	\$ 77,160	\$ 46,240	\$ 30,920	\$ 654,115
3	\$ 654,115	\$ 77,160	\$ 44,153	\$ 33,007	\$ 621,107
4	\$ 621,107	\$ 77,160	\$ 41,825	\$ 35,235	\$ 585,872
5	\$ 585,872	\$ 77,160	\$ 39,346	\$ 37,814	\$ 548,259
6	\$ 548,259	\$ 77,160	\$ 37,007	\$ 40,153	\$ 508,106
7	\$ 508,106	\$ 77,160	\$ 34,297	\$ 42,863	\$ 465,243
8	\$ 465,243	\$ 77,160	\$ 31,404	\$ 45,756	\$ 419,487
9	\$ 419,487	\$ 77,160	\$ 28,315	\$ 48,845	\$ 370,642
10	\$ 370,642	\$ 77,160	\$ 25,018	\$ 52,142	\$ 318,500
11	\$ 318,500	\$ 77,160	\$ 21,499	\$ 55,661	\$ 262,839
12	\$ 262,839	\$ 77,160	\$ 17,782	\$ 59,378	\$ 203,461
13	\$ 203,461	\$ 77,160	\$ 13,731	\$ 63,429	\$ 139,992
14	\$ 139,992	\$ 77,160	\$ 9,449	\$ 67,711	\$ 72,281
15	\$ 72,281	\$ 77,160	\$ 4,879	\$ 72,281	\$ (0)

Find a country's stats from the scrolling list on the left.

**European Union**

GDP: \$ 11,650,000,000,000  
Population: 456,953,258  
GDP/Capital: \$ 26,900  
GDP Growth: 2.4%

Boulton's International Business Simulation

System View Trading Windows Help

Order: International Business Simulation

Key Economic Indicators for 2007

International Currency Rates 2007

Government Fiscal and Monetary Policies starting 2008

Interest Rates

Corporate Taxes

Government Grants

TSX Group

BCE

Order Area

Quantity: 300

Buy Sell

Transaction Amount: \$ 31,650


Games, simulations, and more!

## What is the process?





How does our lesson outline correspond to the process of analysis?





**Enter**






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**Data Entry, Layout, Setup, and Navigation:**

- Numbers, functions, labels - What's the diff?
- Layout - wise and unwise
- Row and Column headings - autofill for dates, etc.
- Copying en masse (entire columns, rows, ranges, and sheets)
- Moving en masse - incl. transpose
- Pasting (special)
- Inserting (single, multiple rows & columns)
- Change "Enter" direction (down, right, etc)
- Freeze panes
- Cell naming

Let's take a step back...



**Collect Data**





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Problem

**Sensitive Data Collection**

How can you use probability to collect sensitive information?

*Illustration Question:*

Have you ever sold illegal drugs?

