# Excel \& Business Math <br> Video/Class Project \#01 <br> Introduction to Excel. Why We Use Excel for Math. First Formula. 

## Topics Covered in Video:

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## 1) USB Drive to store files from class

As is required from our syllabus, you must buy a Jump Drive to store all the Excel and PDF files for our class. Example of USB Jump Drives:


## 2) Save As to Download Excel \& pdf Files

At our class web site, right-click the file, and depending on your browser, point to:

1) Chrome:

| Open link in new tab <br> Open link in new window <br> Open link in incognito window |
| :--- | :--- |
| Save link as... <br> Copy link address <br> Inspect |

2) Internet Explorer:

| Open <br> Open in new tab <br> Open in new window <br> Save target as... <br> Print target |
| :--- |

3) Mozilla:

| Open Link in New Iab |
| :--- | :--- |
| Open Link in New Window |
| Open Link in New Private Window |
| Bookmark This Link |
| Save Link As... |
| Save Link to Pocket <br> Copy Link Location |

## 3) Save Class Files \& Create Class Folder

1. When we download a file, we Navigate to our Jump Drive.
2. In the Save As dialog Box you can create a new folder using the keyboard Ctrl + Shift + N, or use the "New Folder Button":

3. Name our class folder "Business Math":

## Business Math

4. On the Left Side of the Save As dialog box, click (not double-click) on the triangles to open your Jump Drive.
5. Then click (not double-click) on Business Math Folder.
6. Then click Save.


4）Windows Explorer to view and open files
1．Windows Explorer is a program that allows use to perform File and Folder Management
2．Windows Explorer allows us to：
1）Verify files and folders are in correct location
2）Open Files
3）Move，Copy Delete files or folders
4）Backup folders and files

3．Keyboard to open Windows Explorer＝ 1 田

4．Examples of what Window Key Looks Like：


## 5）Why we use Excel for Business Math

1．Your Job will require it！！！！！
2．Make many calculations quickly．
Example for Video of making many＂Net Pay＂calculations quickly：

| D7 | －$\quad$－$\times$ | $\checkmark f_{x} \quad=B 7-C 7$ |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 2 | A | B | C | D |
| 6 | Employee | Gross Pay | Tax Deduction | Net Pay |
| 7 | Jesenia Earley | 4819.89 | 578.39 | 4241.5 |
| 8 | Francene Nobles | 5009.01 | 250.45 | 4758.56 |
| 9 | Tandra Carbone | 5605.18 | 616.57 | 4988.61 |
| 10 | Tam Leak | 4216.38 | 252.98 | 3963.4 |
| 11 | Vince Pitre | 4102.2 | 492.26 | 3609.94 |
| 12 | ＾＾ | 103012 | ィоว о1 | ィวгィว |

3．Make complicated calculations MUCH easier．
Example of FV Function（as seen in video）：

|  | F | G | H | I | J | K |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6 | Years | 35 |  |  |  |  |
| 7 | Months in A Year | 12 |  |  |  |  |
| 8 | Annual Interest Rate | 0.12 |  |  |  |  |
| 9 | Monthly Deposit | （\＄100．00） |  |  |  |  |
| 10 | Monthly Interest Rate | 0.01 |  |  |  |  |
| 11 | Total Number of Months | 420 |  |  |  |  |
| 12 | Pension Value | \＄643，095．95 | ＝FV（G） | G9） |  |  |
| 13 | Pension Value | \＄643，095．95 | $=-\mathrm{G9}$＊ | G7） | 7） | G7） |

4．What IF Analysis：Change Formula Input and Answer Instantly Updates．
Example of changing Year Formula Input and our answer instantly updated（as seen in video）：

| 2 | F | G | H | I | J | K |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6 | Years | 40 |  |  |  |  |
| 7 | Months in A Year | 12 |  |  |  |  |
| 8 | Annual Interest Rate | 0.12 |  |  |  |  |
| 9 | Monthly Deposit | （\＄100．00） |  |  |  |  |
| 10 | Monthly Interest Rate | 0.01 |  |  |  |  |
| 11 | Total Number of Months | 480 |  |  |  |  |
| 12 | Pension Value | \＄1，176，477．25 | ＝FV（G） | G9） |  |  |
| 13 | Pension Value | \＄1，176，477．25 | $=-\mathrm{G9}$＊（（1＋G8／G7）＾（G6＊G7）－1）／（G8／G7） |  |  |  |

6) Conventions for Class

| 4 | A | B | C | D | E | F | G | H | I | J | K |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Blue Worksheet Tab | You work on th | his sheet. You do | things like make |  | culations / create formulas on the | se sheets |  |  |  |  |
| 2 | Red Worksheet Tab | Shows complet | ted work |  |  |  |  |  |  |  |  |
| 3 | Yellow Worksheet Tab | Sheets with No | otes |  |  |  |  |  |  |  |  |
| 4 | Black Worksheet Tab | Homework Pro | oblems come after | er the Black Shee |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  | Dark Blue Fill with White Font | Variable (Form | rmula Inputs) Nam | mes |  |  |
| 6 | Dark Blue Fill with White Font | Column Heade | ers in Data Set |  |  | $\vee \vee \vee \vee \vee$ |  |  |  |  |  |
| 7 | $\vee \vee \vee \vee \vee$ |  |  |  |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  | Years | 35 |  | <<< | Cells with no Fill Color | Item typed in cell |
| 9 | Employee | Gross Pay | Tax Deduction | Net Pay |  | Months in A Year | 12 |  |  |  |  |
| 10 | Jesenia Earley | 4819.89 | 578.39 | 4241.5 |  | Annual Interest Rate | 0.12 |  |  |  |  |
| 11 | Francene Nobles | 5009.01 | 250.45 | 4758.56 |  | Monthly Deposit | -100 |  |  |  |  |
| 12 | Tandra Carbone | 5605.18 | 616.57 | 4988.61 |  | Monthly Interest Rate | 0.01 |  | <<< | Cells with Light Green Fill Color | Calculation $=$ Formula |
| 13 | Tam Leak | 4216.38 | 252.98 | 3963.4 |  | Total Number of Months | 420 |  |  |  |  |
| 14 | Vince Pitre | 4102.2 | 492.26 | 3609.94 |  | Pension Value | \$643,095.95 |  |  |  |  |
| 15 | Bettie Maes | 4838.12 | 483.81 | 4354.31 |  | Pension Value | \$643,095.95 |  |  |  |  |
| 16 | Edris Cormier | 4525.03 | 497.75 | 4027.28 |  |  |  |  |  |  |  |
| 17 | Melda Barrios | 5554.64 | 388.82 | 5165.82 |  |  |  |  |  |  |  |
| 18 | Belle Cameron | 4046.97 | 526.11 | 3520.86 |  | Cells with Light Yellow Fill Colo | = Instructions, | , like for practice | homework | or tests. |  |
| 19 | Doria Kopp | 4686.88 | 328.08 | 4358.8 |  | $\vee \vee \vee \vee \vee$ |  |  |  |  |  |
| 20 | Marita Ricketts | 3756.34 | 413.2 | 3343.14 |  |  |  |  |  |  |  |
| 21 | Colene Leslie | 4734.13 | 520.75 | 4213.38 |  | In cell 125 create a formula that | Iculates Net P | Pay. Then copy th | he formula dod | down the column. |  |
| 22 | Fae Dunbar | 5296.25 | 317.78 | 4978.47 |  | The formula for Net Pay is: Net | Pay $=$ Gross Pay | $y$ - Tax Deduction |  |  |  |
| 23 | Mellisa Rapp | 5669.16 | 566.92 | 5102.24 |  |  |  |  |  |  |  |
| 24 | Ethan Hamm | 5461.85 | 546.19 | 4915.66 |  | Employee | Gross Pay | Tax Deduction | Net Pay |  |  |
| 25 | Maryjane Mayhew | 5209.77 | 260.49 | 4949.28 |  | Glennis Giron | 1159.74 | 69.58 | 1090.16 |  |  |
| 26 | Rochell Staten | 5042.1 | 302.53 | 4739.57 |  | Carman Brandon | 983.69 | 108.21 | 875.48 |  |  |
| 27 | Lou Zook | 5119.35 | 511.94 | 4607.41 |  | Shad Tapp | 691.13 | 89.85 | 601.28 |  |  |

1. Blue Worksheet Tab = You work on this sheet. You do things like make calculations / create formulas on these sheets
2. Red Worksheet Tab = Shows completed work
3. Yellow Worksheet Tab = Sheets with Notes
4. Black Worksheet Tab = Homework Problems come after the Black Sheet
5. Dark Blue Fill with White Font = Column Headers in Data Set
6. Dark Blue Fill with White Font = Variable (Formula Inputs) Names
7. Cells with no Fill Color = Item typed in cell
8. Cells with Light Green Fill Color = Calculation = Formula
9. Cells with Light Yellow Fill Color = Instructions, like for practice homework or tests.

## 7) What does Excel do?

1. Store Raw Data.

Excel can store raw data, like names and numbers, but it is not as effective in storing Raw Data as a Database is at storing Raw Data.
2. Makes Calculations (Formulas)

Like calculating a Net Pay amount
3. Perform Data Analysis (Convert Raw Data into Useful Information).

| , | A | B | C | D | E | F | G | H | I | J | K | L | M |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | What Excel Does: |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 1) Store Raw Data |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | 2) Make Calculations (Formulas) |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | 3) Perform Data Analysis |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | 1) Store Raw Data |  | 2) Make Calculations (Formulas) |  |  |  |  |  | 3) Perform Data Analysis |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  | (Convert Raw Data into Useful Information) |  |  |  |  |
| 8 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 | Sales Rep | Sales |  | Employee | Gross Pay | Tax Deduction | Net Pay |  | Sales Rep | Sales |  | Sales Rep | - Sum of Sales |
| 10 | Sioux | 3832 |  | Jesenia Earley | 4819.89 | 578.39 | 4241.5 |  | Sioux | 3832 |  | Gigi | 2324 |
| 11 | Tyrone | 2808 |  | Francene Nobles | 5009.01 | 250.45 | 4758.56 |  | Tyrone | 2808 |  | Luong | 6390 |
| 12 | Luong | 2633 |  | Tandra Carbone | 5605.18 | 616.57 | 4988.61 |  | Luong | 2633 |  | Sioux | 7308 |
| 13 | Gigi | 1063 |  | Tam Leak | 4216.38 | 252.98 | 3963.4 |  | Gigi | 1063 |  | Tyrone | 9067 |
| 14 | Sioux | 3476 |  | Vince Pitre | 4102.2 | 492.26 | 3609.94 |  | Sioux | 3476 |  | Grand Total | 25089 |
| 15 | Tyrone | 3266 |  | Bettie Maes | 4838.12 | 483.81 | 4354.31 |  | Tyrone | 3266 |  |  |  |

## 8) Excel Workbook Layout

1. Column Headers $=$ Letters. Row Headers $=$ Numbers.
2. $\quad$ Cells $=$ Intersection of Column \& Row, like cell D14

This is important because we can store raw data in cells and refer to raw data in cells in formulas by using Cell References.

4. Sheet Tab Names Worksheet Tab Names = Name of Sheet
5. All Sheets = Workbook = The Whole Excel File = Workbook

| 4 | A | B | C | D | E | F | G | H | I | J |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Excel Layout: |  |  |  |  |  |  |  |  |  |
| 2 | Column Headers = Letters |  |  |  |  |  |  |  |  |  |
| 3 | Row Headers = Numbers |  |  |  |  |  |  |  |  |  |
| 4 | Cells = Intersection of Column \& Row |  |  |  |  |  |  |  |  |  |
| 5 | Worksheets $=$ Sheet $=$ All The Cells |  |  |  |  |  |  |  |  |  |
| 6 | Sheet Tab Names = Name of Sheet |  |  |  |  |  |  |  |  |  |
| 7 | Workbooks = All Sheets |  |  |  |  |  |  |  |  |  |
| 8 | Move Between Sheets: Right-click Sheet Navigation Arrow |  |  |  |  |  |  |  |  |  |
| 9 | File = Workbook |  |  |  |  |  |  |  |  |  |
| 10 | Ribbon Tabs |  |  |  |  |  |  |  |  |  |
| 11 | Quick Access Toolbar = QAT |  |  |  |  |  |  |  |  |  |


6. Move Between Sheets: Right-Click Sheet Navigation Arrow

7. Ribbon Tabs = Tabs at Top of Excel Window that contain the commands that we can use.

8. Quick Access Toolbar = QAT

1) We will not use it in this class.
2) We will use these keyboards for Save, Undo and Redo:
3) $\mathrm{Ctrl}+\mathrm{S}=$ Save Changes in File
4) $C$ trl $+Z=$ Undo
5) $\mathrm{Ctrl}+\mathrm{Y}=$ Re-do = Undo the Undo
9. Zoom in and out $=$ Ctrl + Roll Wheel on Mouse
1) You can zoom the view of the Excel Worksheet by
2) First Excel Formula: Total Sales = Price * Number Units Sold
1. Formulas always start with an Equal Sign as first character in cell. When you type an Equal Sign as first character in cell you are telling Excel that you want to create a formula.

2. We use cell references to refer to cells that have numbers that we need in our formula.

You can use the Arrow Keys on the Navigation Pad on a Standard Keyboard (Or Arrow Keys on Laptop) to put Cell References into a Formula.


You can use the Mouse and the Selection Cursor to select Cell References for your formula. The Selection Cursor looks like this:

2) Cell References Refer to Numbers we use in our Formula
3. Type a multiplication Symbol (asterisk key on Number Pad or Shift + 8)

|  | A | B | C | D | 3) Asterisk is the Multiplication Symbol |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Boomerang Sold Product | Price | Number <br> Units Sold | Total Sales |  |
| 2 | Sunset | 21.95 | 5 | =B2* |  |
| 3 | Flattop | 29.95 | 2 |  |  |

Note: Use asterisk key on Number Pad or Shift + 8 as seen in this picture:


Asterisk key on Number Pad
4. Enter Cell Reference for Number of Units.

|  | A | B | C | D | 4) Cell References |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Boomerang Sold Product | Price | Number Units Sold | Total Sales | Refer to Numbers we use in our |
| 2 | Sunset | 21.95 | 5 | = $\mathrm{B}^{*} \mathrm{C} 2$ | Formula |
| 3 | Flattop | 29.95 | 2 |  |  |

5. Use Ctrl + Enter to put the formula in the cell and keep the cell selected. We can see the answer from the formula in the Cell D2 and we can see the formula in the Formula Bar.

6. To Copy the formula down the column, you can Double-Click the "Fill Handle" with your Cross Hair or "Angry Rabbit" Cursor:

Fill Handle looks like this: I


Angry Rabbit Cursor looks like this:



DO NOT USE THE MOVE CURSOR TO COPY FORMULA:

7. After you Double-Click the Fill Handle with your Cross Hair or "Angry Rabbit" Cursor the formula will copy down the column and stop at the last row because there are no more rows of data:

| - | A | B | C | D | E |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Boomerang Sold Product | Price | Number Units Sold | Total Sales |  |  |
| 2 | Sunset | 21.95 | 5 | 109.75 |  |  |
| 3 | Flattop | 29.95 | 2 | 59.9 |  |  |
| 4 | Flying Eagle | 32.95 | 5 | 164.75 |  |  |
| 5 | Sunset | 21.95 | 12 | 263.4 |  |  |
| 6 | Flying Eagle | 32.95 | 5 | 164.75 |  | 7) The formula |
| 7 | Flying Eagle | 32.95 | 15 | 494.25 |  |  |
| 8 | Flattop | 29.95 | 2 | 59.9 |  | "Total Sales = Price * |
| 9 | Aspen | 22.95 | 3 | 68.85 |  |  |
| 10 | Yanaki | 25.95 | 12 | 311.4 |  |  |
| 11 | Yanaki | 25.95 | 2 | 51.9 |  |  |
| 12 | Sunset | 21.95 | 12 | 263.4 |  | was copied through |
| 13 | Flying Eagle | 32.95 | 23 | 757.85 |  | the Range of Cells |
| 14 | Flattop | 29.95 | 19 | 569.05 |  | D2:D19. |
| 15 | Aspen | 22.95 | 13 | 298.35 |  |  |
| 16 | Yanaki | 25.95 | 24 | 622.8 |  |  |
| 17 | Sunset | 21.95 | 18 | 395.1 |  |  |
| 18 | Flattop | 29.95 | 7 | 209.65 |  |  |
| 19 | Flying Eagle | 32.95 | 19 | 626.05 |  |  |
| 20 |  |  |  |  |  |  |

8. After you copy a formula through a range of cells, ALWAYS select the last cell in the range and hit the F2 Key to verify that the formula is correct. F2 puts the cell in Edit Mode so we can visually see if Cell References are pointing to the correct Formula Inputs.


## 10)Selecting a Range of Cells with the Selection Cursor

1. Goal: Select all cells on range B31:I33.
2. With Selection Cursor in middle of Cell B31, click and drag to the side.


## 11) Number Formatting

1. Number Formatting $=A$ Façade that sits on top of Number.
2. Number Formatting can be applied in the Number group in the Home Ribbon Tab.

3. The number under the Number Formatting can be different than what you "see" on the surface of the cell.

4. Number Formatting can save us a lot of type because we don't have to type as many characters into the cell.
5. Be Careful!!!!!
1) Number Formatting is only a Façade.
2) Number Formatting only changes what we "see".
3) Number Formatting does not Change the underlying Number.
4) If you decrease the decimals using the Decrease Decimal Button in the Number group in the Home Ribbon Tab, the decimals are not removed, they are just "displayed" with fewer decimals:
 Formula Bar shows that 76178.5 is the ACTUAL number in Cell B32
$\$ 76,179$ is NOT the actual number in the cell. $\$ 76,179$ is only what you "see".
12)Second Excel Formula for Net Income \& How To Copying Formula to the Side
1. With Cell B33 selected, create the formula =B31-B32. The displayed answer of $\$ 34,226$ is what we "see" in cell B33. The Formula Bar shows us the formula.

| B33 | $\checkmark$ |  | $\checkmark f_{x}$ =B3 | 1-B32 $\leftarrow$ | Formula Bar shows us Form |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 4 | A |  | B | C |  |
| 30 |  |  | Jan | Feb |  |
| 31 | Revenue |  | \$110,404 | \$130,641 | Displayed answer of \$34,226 in Cell B33 |
| 32 | Expenses |  | \$76,179 | \$67,933 |  |
| 33 | Net Income |  | \$34,226 |  |  |

2. To copy the formula to the side, hover your cursor over Fill Handle and when you see the "Angry Rabbit" Cursor, click and drag to the side until your cursor is over cell I33:

| 2 | A | B | C | D | E | F | G | H | I |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 30 |  | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug |
| 31 | Revenue | \$110,404 | \$130,641 | \$80,259 | \$144,912 | \$60,882 | \$83,274 | \$69,274 | \$148,651 |
| 32 | Expenses | \$76,179 | \$67,933 | \$44,944 | \$95,642 | \$34,703 | \$42,470 | \$47,106 | \$71,352 |
| 33 | Net Income | \$34,226 |  |  |  |  |  |  | $\rightarrow$ |
| 21 |  |  |  |  |  |  |  |  |  |
| 4 | A | B | C | D | E | F | G | H | I |
| 30 |  | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug |
| 31 | Revenue | \$110,404 | \$130,641 | \$80,259 | \$144,912 | \$60,882 | \$83,274 | \$69,274 | \$148,651 |
| 32 | Expenses | \$76,179 | \$67,933 | \$44,944 | \$95,642 | \$34,703 | \$42,470 | \$47,106 | \$71,352 |
| 33 | Net Income | \$34,226 | \$62,700 | \$35,314\| | \$49,270\| | \$26,100 | \$40,004\| | \$22,160 | \$77,299 |

3. Selecting Cell I33, use the F2 Key to put the cell in Edit Mode and verify that the Relative Cell References are pointing to the correct Formula Inputs.

| 4 | A | B | C | D | E | F | G | H | I |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 30 |  | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug |
| 31 | Revenue | \$110,404 | \$130,641 | \$80,259 | \$144,912 | \$60,882 | \$83,274 | \$69,274 | \$148,651 |
| 32 | Expenses | \$76,179 | \$67,933 | \$44,944 | \$95,642 | \$34,703 | \$42,470 | \$47,106 | \$71,352 |
| 33 | Net Income | \$34,225 | \$62,708 | \$35,314 | \$49,270 | \$26,180 | \$40,804 | \$22,168 | =\|31-132 |



## 13) Verify that Number Formatting is NOT displaying a misleading Number

1. Notice that: $\mathbf{1 1 0 4 0 4 - 7 6 1 7 9 = 3 4 2 2 5 ~ N O T : ~} \mathbf{3 4 2 2 6}$
2. Number Formatting is "displaying" a misleading answer

| B33 | $\checkmark$ - |  | $\checkmark f_{x}$ = $=$ 3 | 1-B32 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4 | A |  | B | C | D | E | F | G | H | I |
| 30 |  |  | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug |
| 31 | Revenue |  | \$110,404 | \$130,641 | \$80,259 | \$144,912 | \$60,882 | \$83,274 | \$69,274 | \$148,651 |
| 32 | Expenses |  | \$76,179 | \$67,933 | \$44,944 | \$95,642 | \$34,703 | \$42,470 | \$47,106 | \$71,352 |
| 33 | Net Income |  | \$34,226 | \$62,708 | \$35,314 | \$49,270 | \$26,180 | \$40,804 | \$22,168 | \$77,299 |
| 34 |  |  |  |  |  |  |  |  |  |  |
| 35 |  |  | 110404-76179=34225 NOT: 34226 |  |  |  |  |  |  |  |
| 36 |  |  |  |  |  |  |  |  |  |  |
| 37 |  |  | Number Formatting is "displaying" a misleading answer |  |  |  |  |  |  |  |

3. To fix this, selecting the Range of Cells $B 31: 133$ with the Selection Cursor and use the Increase Decimal Button in the Number group in the Home Ribbon Tab.


## 14) PDF Notes

1. Be sure to read them because there are a written and pictorial description of what is shown in the Video.

## 15) Practice Homework \& Answers to Homework

1. Practice Homework \& Answers to Homework are always located on the Worksheets at the end of the Excel Workbook.

Save As Dialog Box or Windows Explorer:

1) Ctrl + Shift + N = Create a new folder
2) $+\mathbf{E}=$ Keyboard to open Windows Explorer

Excel:
3) Move Between Sheets = Right-Click Sheet Navigation Arrow
4) $\mathbf{C t r l}+\mathbf{S}=$ Save Changes in File
5) $\mathbf{C t r l}+Z=$ Undo
6) $\mathbf{C t r l}+\mathbf{Y}=$ Re-do $=$ Undo the Undo
7) Ctrl + Roll Wheel on Mouse = Zoom screen size in and out (Not Print Size)
8) Arrow Keys = Put Cell References into Formulas after you type an equal sign as first character in cell.
9) Shift $+\mathbf{8}=$ Multiplication symbol in Math
10) * on Number Pad = Multiplication symbol in Math
11) Ctrl + Enter = When you have a single Cell in Edit Mode and
12) F2 = Puts a cell in Edit Mode so we can visually see if Cell References are pointing to the correct Formula Inputs
i. Note: On a Laptop Computer you may have to use the Fn key to get the F2 key to work.
ii. As seen here from page 2 in syllabus:
3. Laptop computers have many different configurations. But if you have a laptop, you may have to access the F Keys using the Fn button (Function key). Here is a picture of a Surface Laptop Keyboard:


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