Excel & Business Math Video/Class Project #01 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:



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":

Organize 🔻 New folder	E • 0
 ★ Favorites 2) Create a new folder using the keyboard Ctrl + Shift + N, or use 	ne Date old 10/9/ New folder 12/18
the "New Folder Button"	
🕞 Video-Class-Storage-Main (E:) KINGSTON (F:)	
Instructors (\\thewardrobe\students) (I:) Image: BUSINESS (\\puget\ACAFFAIR\DIVISION) (J:) Image: mgirvin (\\puget\users\m) (M:) Image: mgirvin (\\thewardrobe) (P:) Image: mgirvin (\\victorio\webbz\content\\ive\people) (7:)	
File name: ExcelBusinessMath01-IntroToExcel.xlsx	,
Save as type: Microsoft Excel Worksheet	•
Hide Folders	Open Cancel
	 Favorites 2) Create a new folder using the keyboard Ctrl + Shift + N, or use the "New Folder Button" Computer Local Disk (C:) Video-Class-Storage-Main (E:) KINGSTON (F:) instructors (\thewardrobe\students) (I:) BUSINESS (\puget\ACAFFAIR\DIVISION) (I:) mgirvin (\puget\users\m) (M:) apps (\thewardrobe) (P:) mgirvin (\victorio\webbz\content\live\people) (Z:) File name: ExcelBusinessMath01-IntroToExcel.xlsx Save as type: Microsoft Excel Worksheet Hide Folders

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.

	Save As	×
4) Click (not	🚱 🔵 🗢 📕 🕨 Computer 🔸 KINGSTON (F:) 🔸 Business Math	✓ 4y Search Business Math P
double-click)	Organize New folder	iii → (0)
on triangle to open Jump Drive	▷☆ Favorites 5) ▷ ⇒ Libraries doub ▲ ➡ Computer ▲ Local Disk (C:) ▷ ➡ Video-Class-Storage-Main (E:) Doub	Click (not le-click) on ness Math
	 ✓ KINGSTON (F:) ✓ Business Math ▷ ✓ old ▷ ✓ instructors (\\thewardrobe\students) (I:) ▷ ✓ BUSINESS (\\puget\ACAFFAIR\DIVISION) (I:) ▷ ✓ mgirvin (\\puget\users\m) (M:) 	6) Click Save
	File name: ExcelBusinessMath01-IntroToExcel.xlsx	
	Hide Folders	Save Cancel

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 = 🕮 + E
- 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	* : ×	$\checkmark f_x$	=B7-C7		
	A	E	3	C	D
6	Employee	Gross P	ау	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	Pottio Maac		1020 12	102 01	1251 21

3. Make complicated calculations MUCH easier.

Example of FV Function (as seen in video):

1	F	G	H I	J	К
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(G10,G11,G	9)	
13	Pension Value	\$643,095.95	=-G9*((1+G8/G7	7)^(G6*G7)-1)/	(G8/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):

-

1	F	G	Н	Ι	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(G10,G11	,G9)		
13	Pension Value	\$1,176,477.25	=-G9*((1+G8/	'G7)^(G	6*G7)-1)/	(G8/G7)

6) Conventions for Class

1	A	В	C	D	E	F	G	Н	I	J	K
1	Blue Worksheet Tab	You work on th	his sheet. You do	things like make c	alcula	tions / create formulas on thes	se sheets				
2	Red Worksheet Tab	Shows comple	eted work								
З	Yellow Worksheet Tab	Sheets with N	otes								
4	Black Worksheet Tab	Homework Pro	oblems come afte	er the Black Sheet							
5					D	ark Blue Fill with White Font	Variable (For	rmula Inputs) Nar	nes		
6	Dark Blue Fill with White Font	Column Heade	ers in Data Set		V	v v v v					
7	v v v v v				-						
8					Y	ears	35		<<<	Cells with no Fill Color	Item typed in cell
9	Employee	Gross Pay	Tax Deduction	Net Pay	N	lonths in A Year	12				
10	Jesenia Earley	4819.89	578.39	4241.5	A	nnual Interest Rate	0.12				
11	Francene Nobles	5009.01	250.45	4758.56	N	lonthly Deposit	-100				
12	Tandra Carbone	5605.18	616.57	4988.61	N	lonthly Interest Rate	0.01		<<<	Cells with Light Green Fill Color	Calculation = Formula
13	Tam Leak	4216.38	252.98	3963.4	Т	otal Number of Months	420				
14	Vince Pitre	4102.2	492.26	3609.94	P	ension Value	\$643,095.95				
15	Bettie Maes	4838.12	483.81	4354.31	P	ension 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	C	ells with Light Yellow Fill Color	= Instructions	s, like for practice	homework	c or tests.	
19	Doria Kopp	4686.88	328.08	4358.8	V	v v v v					
20	Marita Ricketts	3756.34	413.2	3343.14							
21	Colene Leslie	4734.13	520.75	4213.38	In	cell I25 create a formula that o	calculates Net	Pay. Then copy th	he formula	down the column.	20
22	Fae Dunbar	5296.25	317.78	4978.47	T	ne formula for Net Pay is: Net I	Pay = Gross Pa	y - Tax Deduction			
23	Mellisa Rapp	5669.16	566.92	5102.24				and the second state of th			
24	Ethan Hamm	5461.85	546.19	4915.66	E	nployee	Gross Pay	Tax Deduction	Net Pay		
25	Maryjane Mayhew	5209.77	260.49	4949.28	G	lennis Giron	1159.74	69.58	1090.16		
26	Rochell Staten	5042.1	302.53	4739.57	C	arman Brandon	983.69	108.21	875.48		
27	Lou Zook	5119.35	511.94	4607.41	S	nad 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).

1	A	B	C D	E	F	G	Η	Ι	J	K L	M
1	Wha	at Exce	el Does:								
2	1) Store Ra	aw Data									
3	2) Make C	alculations (F	ormulas)								
4	3) Perform	n Data Analysi	s								
5											
6	1) Store Ra	aw Data	2) Make Calculatio	ons (Formulas)				3) Perform	Data Analys	is	
7								(Convert R	aw Data into	Useful Informat	ion)
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

3.

- 1. Column Headers = Letters. Row Headers = Numbers.
- 2. 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.

C2	• : × •	/ f _x =	B2*C2			The Formula is in
1	A		В	С	D	Cell D2. The
1	Boomerang Sold P	roduct	Price	Number Units Sold	Total Sales	Formula uses Cell
2	Sunset		21.95	5	=B2*C2	References that
3	Flattop		29.95	2		refer to the
						numbers in cells B2
						and C2.

- Worksheets = "Spreadsheet" = Sheet = All The Cells
- 4. Sheet Tab Names Worksheet Tab Names = Name of Sheet
- 5. All Sheets = Workbook = The Whole Excel File = Workbook

1	A	В	C	D	E	F	G	н	I	J
1	Excel Layout:		1				1			
2	Column Headers = Letters	2 (
3	Row Headers = Numbers									
4	Cells = Intersection of Column & Row									
5	Worksheets = Sheet = All The Cells									
6	Sheet Tab Names = Name of Sheet	8								
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) Ctrl + S = Save Changes in File
 - 4) Ctrl + Z = Undo

9.

- 5) Ctrl + Y = Re-do = Undo the Undo
- Zoom in and out = Ctrl + Roll Wheel on Mouse
 - 1) You can zoom the view of the Excel Worksheet by

9) 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.

	A	В	С	D	E	
1	Boomerang Sold Product	Price	Number Units Sold	Total Sales		1) Equal Sign Starts All
2	Sunset	21.95	5	=		Eormulac
3	Flattop	29.95	2			Formulas

 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:

1	А	В	C	D	
1	Boomerang Sold Product	Price	Number Units Sold	Total Sales	
2	Sunset	21.95	5	=B2	4
3	Flattop	29.95	2		

3. Type a multiplication Symbol (asterisk key on Number Pad or Shift + 8)

	А	В	С	D	
1	Boomerang Sold Product	Price	Number Units Sold	Total Sales	3) Asterisk is the Multiplication
2	Sunset	21.95	5	=B2*	Symbol
3	Flattop	29.95	2		

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



4. Enter Cell Reference for Number of Units.

1	А	В	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	=B2*C2	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.

Name	D2	*	$\times \checkmark f_x$	=B2*C2 🔺		Forn	nula Bar Shows	the l	Formula.
Box	1		A	В	С		D	ſ	-
Shows which Cell is	1	Boomerang	Sold Product	Price	Number Units Sold	1	rotal Sales		5) Ctrl + Enter to put Formula
Selected	2	Sunset		21.95		5	109.75		in Cell and
	3	Flattop		29.95		2	-		Keep Cell Selected
								l	
				Form Ans	nula Shows the wer of 109.75 in Cell D2.	e			

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



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DO NOT USE THE SELECTION CURSOR TO COPY FORMULA:



Total Sales



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	В	C	D	E
			Number		
1	Boomerang Sold Product	Price	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	Number Units Cold"
10	Yanaki	25.95	12	311.4	Number Onits Sold
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.

1	A	В		С	D	Е	
			Num	ber			
1	Boomerang Sold Product	Price	Units	Sold	Total Sales		
2	Sunset	21.95		5	109.75		8) AT 14/AV
2	Clatter.	20.05		2	59.9		oj ALWAT
				5	164.75		using the
NOTE: O	n a Laptop Computer y	ou ma	v	12	263.4		see if Cell
have to us	e the En key to get the	E2 kov	to	5	164.75		pointing
nave to us			.0	15	494.25		Form
work. See	e picture at end of this	pdf file	<u>e</u> .	2	<mark>59.9</mark>		
				3	68.85		
10	Yanaki	25.95		12	311.4		
11	Yanaki	25.95		2	51.9		Notice th
12	Sunset	21.95		12	263.4		always ha
13	Flying Eagle	32.95		23	757.85		that are lo
14	Flattop	29.95	5	19	569 05		to-the-le
15	Aspen	22.95	-	13	298.35		
16	Yanaki	25.95		24	622.8		Those
17	Sunset	21.95	e 6	18	395.1		These
18	Flattop	29.95		7	209.65		Keterer
19	Flying Eagle	32.95		19	=B19*C19		"Relative
20							

8) ALWAYS check last cell using the keyboard F2 to see if Cell References are pointing to the correct Formula Inputs

Notice that the formula always has Cell References that are looking two-cellsto-the-left (Price) times one-cell-to-the-left (Units). These types of Cell References are called **"Relative Cell References"**

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.

B31	• • · ×	✓ f _x 110	404						
1	A	В	С	D	E	F	G	Н	Ι
30		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
31	Revenue		130641	80258.55	144912	60882.33	83274	69274.44	148650.94
32	Expenses	76178.5	67933.32	44944.2	956/1 91	34702 61	42469.9	47106.2	71352.15
33	Net Income								
3/					With Se	lection Curso	or,		
	3. Drag	the Selectio	n Cursor unt	il cell 133.	click in	Cell B31 and	d		
	0. 2.00				drag cur	rsor to Cell I	33		
1	A	В	C	D			G	Н	Ι
30		Jan	Feb	Mar	A <mark>p.</mark>			Jul	Aug
31	Revenue	110404	130641	80258.55	144912	60882.33	83274	69274.44	148650.94
32	Expenses	76178.5	67933.32	44944.2	95641.81	34702.61	42469.9	47106.2	71352.15
33	Net Income		s						5
34									

4. **DO NOT** USE THE MOVE CURSOR TO SELECT CELLS:

5. **DO NOT** USE THE "ANGRY RABBIT" CROSS HAIR CURSOR TO SELECT CELLS:

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.

File	e Home Insert	Page Layout Fo	ormulas Data	Review View		you want	to do		-	
Past V	Clipboard	ori \cdot 11 $I \sqcup \cdot$ $\boxplus \cdot$ Font f_{π} 110	$ \begin{array}{c} \bullet \\ \bullet $	E ■ ≫ • E E = E E Alignmen	र्षे Wrap Text Merge & Center 👻 t न्द्र	АВС 123 12	General No specific format Number 110404.00	nal Format as ng ∗ Table *	nal :k Celi	With Range B31:I33 selected, Choose Currency Number
1	A	В	С	D	E		Currency \$110,404.00	Н	Ι	Formatting in the
30		Jan	Feb	Mar	Apr		Accounting	Jul	Aug	Number group in the
31	Revenue	110404	130641	80258.55	144912		\$110,404.00	4 69274.44	14865	Number group in the
32	Expenses	76178.5	67933.32	44944.2	95641.81		Short Date	47106.2	7135	Home Ribbon Tab.
33	Net Income						4/10/2202 Long Date			

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

ABC30JanFeb31Revenue\$110,404.0032Expenses\$76,178.5033Net IncomeImage: Second	B31	• • · ×	√ <i>f</i> _x 110	404	With Cell B31 selected, the Formula Bar
30 Jan Feb 31 Revenue \$110,404.00 \$130,641.00 32 Expenses \$76,178.50 \$67,933.32	1	A	В	С	shows what is actually in Cell B31,
31 Revenue \$110,404.00 \$130,641.00 There are only 6 Characters. 32 Expenses \$76,178.50 \$67,933.32 33 Net Income Image: Second	30		Jan	Feb	underneath the Number Formatting.
32 Expenses \$76,178.50 \$67,933.32 33 Net Income	31	Revenue	\$110,404.00	\$130,641.00	There are only 6 Characters.
33 Net Income	32	Expenses	\$76,178.50	\$67,933.32	
35 Net licome	33	Net Income			

With Cell B31 selected, we see "\$110,404.00", 11 characters. This is the façade, this is what you "see" on the surface of Cell B31.

- 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:





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	• : ×	<i>√ f</i> x =B3	31-B32	Formula Bar shows us Formula.
1	A	В	C	
30	-	Jan	Feb	
31	Revenue	\$110,404	\$130,641	Displayed answer of
32	Expenses	\$76,179	\$67,933	\$34,226 in Cell B33
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:

1	A	В	C	D	E	F	G	Н	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	Ľ						
24			i						

1	A	В	C	D	E	F	G	Н	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	\$19,270	\$26,180	\$10,801	\$22,168	\$77 ,299
24				1		14			

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.

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 \$ 32 Expenses \$76,179 \$67,933 \$44,944 \$95,642 \$34,703 \$42,470 \$47,106 \$ 33 Net Income \$34,225 \$62,708 \$35,314 \$49,270 \$26,180 \$40,804 \$22,168 =131
31 Revenue \$110,404 \$130,641 \$80,259 \$144,912 \$60,882 \$83,274 \$69,274 \$ 32 Expenses \$76,179 \$67,933 \$44,944 \$95,642 \$34,703 \$42,470 \$47,106 \$ 33 Net Income \$34,225 \$62,708 \$35,314 \$49,270 \$26,180 \$40,804 \$22,168 =131
32 Expenses \$76,179 \$67,933 \$44,944 \$95,642 \$34,703 \$42,470 \$47,106 33 Net Income \$34,225 \$62,708 \$35,314 \$49,270 \$26,180 \$40,804 \$22,168 =131
33 Net Income \$34,225 \$62,708 \$35,314 \$49,270 \$26,180 \$40,804 \$22,168 =131
24

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

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

- 1. Notice that: **110404 76179 = 34225** NOT: **34226**
- 2. Number Formatting is "displaying" a misleading answer

B33	• : ×	<i>√ f_x</i> =B	3 <mark>1-</mark> B32						
1	A	В	С	D	E	F	G	Н	Ι
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 - 761	L79 = 34225	NOT: 34226					
36									
37		Number Formatting is "displaying" a misleading answer							

3. To fix this, selecting the Range of Cells B31:I33 with the Selection Cursor and use the Increase Decimal Button in the Number group in the Home Ribbon Tab.

File	e Home Insert	Page Layout F	ormulas Data	Review View	Q Tell me wha	at you want to do				
South Calibri Increase Decimal Currency Currency Normal Bad Paste Format Painter B I Image: Complex to the state of								mal Bad ck Cell Explan		
B31 ▼ : × ✓ fx 110404										
1	A	В	С	D	E	F	G	Н	Ι	
30		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	
31	Revenue	\$110,404.00	\$130,641.00	\$80,258.55	\$144,912.00	\$60,882.33	\$83,274.00	\$69,274.44	\$148,650.94	
32	Expenses	\$76,178.50	\$67,933.32	\$44,944.20	\$95,641.81	\$34,702.61	\$42,469.90	\$47,106.20	\$71,352.15	
33	Net Income	\$34,225.50	\$62,707.68	\$35,314.35	\$49,270.19	\$26,179.72	\$40,804.10	\$22,168.24	\$77,298.79	
24		6								

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) **If + E** = Keyboard to open Windows Explorer

Excel:

- 3) Move Between Sheets = Right-Click Sheet Navigation Arrow
- 4) **Ctrl + S** = Save Changes in File
- 5) **Ctrl + Z** = Undo
- 6) **Ctrl + 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 + 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:
- 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:

