### Office 2016– Excel Basics 02 Video/Class Project #14

Excel Basics 2: Introduction to Excel 2: Excel's Golden Rule for Formulas, Formula Inputs, & Charts

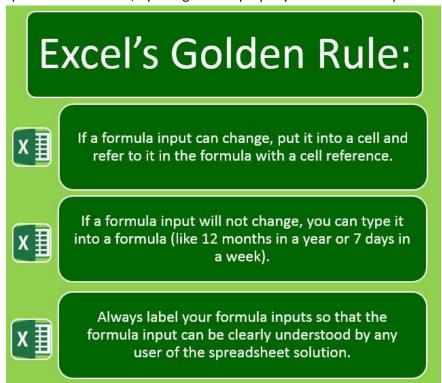
Goal in video: Create Net Income Projections Table and Chart that allows easy update.

#### Topics Covered in Video:

- 1) Synonym for Sheet or Worksheet is "Spreadsheet"
- 2) Format Cells Dialog Box
  - i. Keyboard = Ctrl + 1
  - ii. Format Cells Dialog Box allows us to add formatting to the cells with the following Tabs:
    - 1. Number
    - 2. Alignment
    - 3. Font
    - 4. Border
    - 5. Fill
    - 6. Protection

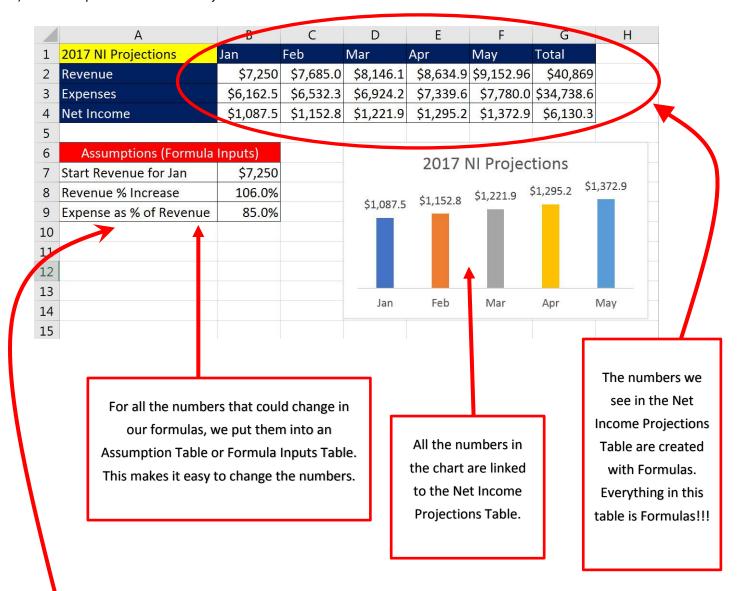
## 3) Excel's Golden Rule:

- If a formula input can change, put it into a cell and refer to it in the formula with a cell reference.
- ii. If a formula input will not change, you can type it into a formula (like 12 months in a year or 7 days in a week).
- iii. Always label your formula inputs so that the formula input can be clearly understood by any user of the spreadsheet solution; by doing this we properly "document the spreadsheet solution (model).



iv.

4) The complete Net Income Projections Table and Chart looks like this:



Any Number we change in the Assumption Table will instantly change the numbers in the Net Income Projections

Table and the chart!!!!

#### 5) Formulas we created:

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i. Start Revenue Formula (we are not copying this formula anywhere):

1	Α	В	
1	2017 NI Projections	Jan	I
2	Revenue	=B7	
3	Expenses	\$6,162.5	
4	Net Income	\$1,087.5	
5			
6	Assumptions (Formula	Inputs)	
7	Start Revenue for Jan	\$7,250	
8	Revenue % Increase	106.0%	
9	Expense as % of Revenue	85.0%	

1. Revenue Increase Formula (uses Relative and Absolute Cell References):

	Α	В	С
1	2017 NI Projections	Jan	Feb
2	Revenue	\$7,250	=B2*\$B\$8
3	Expenses	\$6,162.5	\$6,532.3
4	Net Income	\$1,087.5	\$1,152.8
5			
6	Assumptions (Formula Inputs)		
7	Start Revenue for Jan	\$7,250	
8	Revenue % Increase	106.0%	
9	Expense as % of Revenue	85.0%	
10			

iii. Expense Formula (uses Relative and Absolute Cell References):

1	А	В	
1	2017 NI Projections	Jan	F
2	Revenue	\$7,250	
3	Expenses	=B2*\$B\$9	
4	Net Income	\$1,087.5	
5			
6	Assumptions (Formula Inputs)		
7	Start Revenue for Jan	\$7,250	
8	Revenue % Increase	106.0%	*
9	Expense as % of Revenue	85.0%	
10			

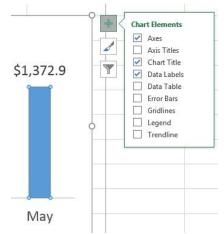
iv. Net Income Formula (uses two Relative Cell References):

	A	В	
1	2017 NI Projections	Jan	F
2	Revenue	\$7,250	
3	Expenses	\$6,162.5	2
4	Net Income	=B2-B3	
5			

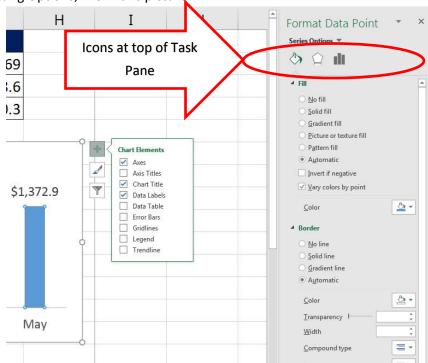
- 6) Charts
  - i. Insert Ribbon tab, Charts Group
  - ii. Chart Junk

1.

- 1. Chart Junk = anything in chart that does not help to deliver message.
- iii. Add Chart Title and Series Labels: Plus (+) symbol next to chart, lik in this picture:



- iv. Move Chart so that it "snaps to cell edge": Drag chart edge while holding Alt key.
- v. Open Format Chart Task Pane with Ctrl + 1
  - 1. When you open Format Chart Task Pane you can click on Icons at top of pane to find different Formatting Options, like in this picture:



- vi. You can link the Chart Title to a cell:
  - 1. Click on Chart Label and make sure it shows a solid line (not a dashed line)
  - 2. Click in Formula Bar
  - 3. Type Equal sign
  - 4. Click on cell in worksheet that has label
  - 5. Hit Enter

#### 7) Page Setup:

- i. Keyboard = Alt, P, S, P
- ii. We looked at:
  - 1. Page tab
  - 2. Margins tab
  - 3. Header/Footer tab

# 8) New Keyboard Shortcut:

- i. Ctrl + 1 = Format Cells dialog box
- ii. Snap Object to grid in sheet use: Click and Alt
- iii. Open Format Chart Element Task Pane: Click on Chart Element and use: Ctrl + 1
- iv. Reminders of ones we have already learned:
  - 1. Ctrl + \* = Highlight current Table (Current Region)
  - 2. Page Setup dialog box = Alt, P, S, P