

Excel & Business Math
Video/Class Project #28
IF Function, ISBLANK function and Building a Check Register

Topics

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1) Format Check Register with Borders as seen in this video

Step 1: We highlighted Checkbook Register and used Ctrl + 1 to open up Format Cells, then on the Border Tab we selected the correct line on the left and then drew the line on the right, as seen here:

The screenshot shows an Excel spreadsheet with a check register. The columns are: Check No., Date, Check Issued To, Withdrawal, Rec?, Amount of Deposit, and Balance. The data is highlighted in green. The 'Format Cells' dialog box is open, showing the 'Border' tab. A red box highlights the 'Line' section, and another red box highlights the 'Border' section with a preview diagram. Red arrows point from these boxes to the spreadsheet and the dialog box respectively.

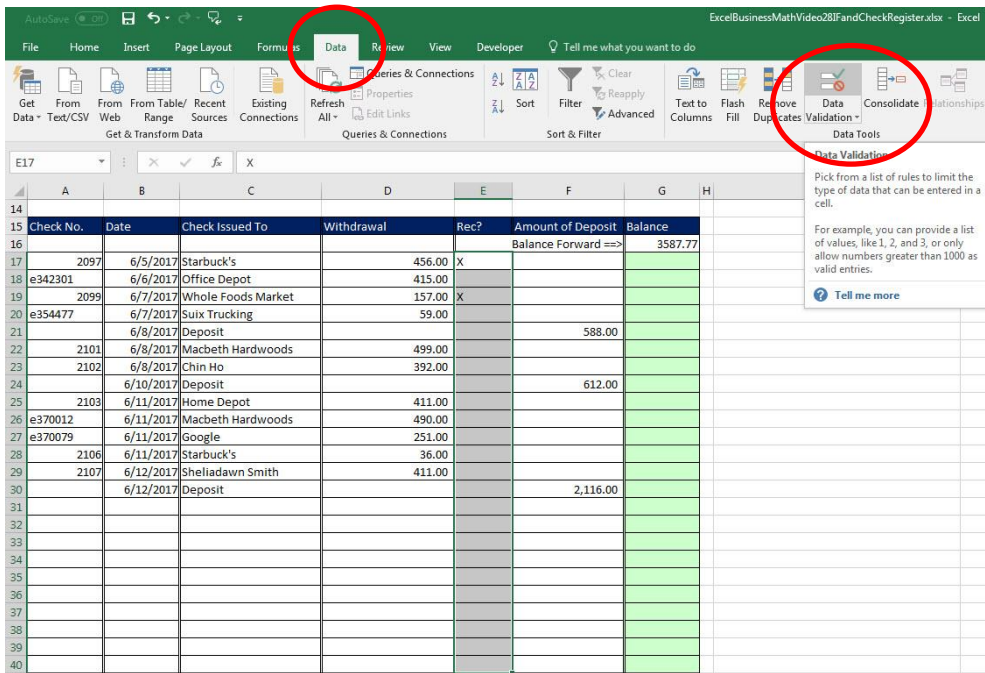
| Check No. | Date | Check Issued To | Withdrawal | Rec? | Amount of Deposit | Balance |
|-----------|-----------|-----------------------------|------------|------|---------------------|---------|
| | | | | | Balance Forward ==> | 3587.77 |
| | 2097 | 6/5/2017 Starbuck's | 456.00 | X | | |
| e342301 | 6/6/2017 | Office Depot | 415.00 | | | |
| | 2099 | 6/7/2017 Whole Foods Market | 157.00 | X | | |
| e354477 | 6/7/2017 | Suix Trucking | 59.00 | | | |
| | 6/8/2017 | Deposit | | | 588.00 | |
| | 2101 | 6/8/2017 Macbeth Hardwoods | 499.00 | | | |
| | 2102 | 6/8/2017 Chin Ho | 392.00 | | | |
| | 6/10/2017 | Deposit | | | 612.00 | |
| | 2103 | 6/11/2017 Home Depot | 411.00 | | | |
| e370012 | 6/11/2017 | Macbeth Hardwoods | 490.00 | | | |
| e370079 | 6/11/2017 | Google | 251.00 | | | |
| | 2106 | 6/11/2017 Starbuck's | 36.00 | | | |
| | 2107 | 6/12/2017 Sheliadawn Smith | 411.00 | | | |
| | 6/12/2017 | Deposit | | | 2,116.00 | |

The finished Checkbook Register with Borders looked like this:

| Check No. | Date | Check Issued To | Withdrawal | Rec? | Amount of Deposit | Balance |
|-----------|-----------|-----------------------------|------------|------|---------------------|---------|
| | | | | | Balance Forward ==> | 3587.77 |
| | 2097 | 6/5/2017 Starbuck's | 456.00 | X | | |
| e342301 | 6/6/2017 | Office Depot | 415.00 | | | |
| | 2099 | 6/7/2017 Whole Foods Market | 157.00 | X | | |
| e354477 | 6/7/2017 | Suix Trucking | 59.00 | | | |
| | 6/8/2017 | Deposit | | | 588.00 | |
| | 2101 | 6/8/2017 Macbeth Hardwoods | 499.00 | | | |
| | 2102 | 6/8/2017 Chin Ho | 392.00 | | | |
| | 6/10/2017 | Deposit | | | 612.00 | |
| | 2103 | 6/11/2017 Home Depot | 411.00 | | | |
| e370012 | 6/11/2017 | Macbeth Hardwoods | 490.00 | | | |
| e370079 | 6/11/2017 | Google | 251.00 | | | |
| | 2106 | 6/11/2017 Starbuck's | 36.00 | | | |
| | 2107 | 6/12/2017 Sheliadawn Smith | 411.00 | | | |
| | 6/12/2017 | Deposit | | | 2,116.00 | |

2) Data Validation for Reconcile Columns as seen in this video

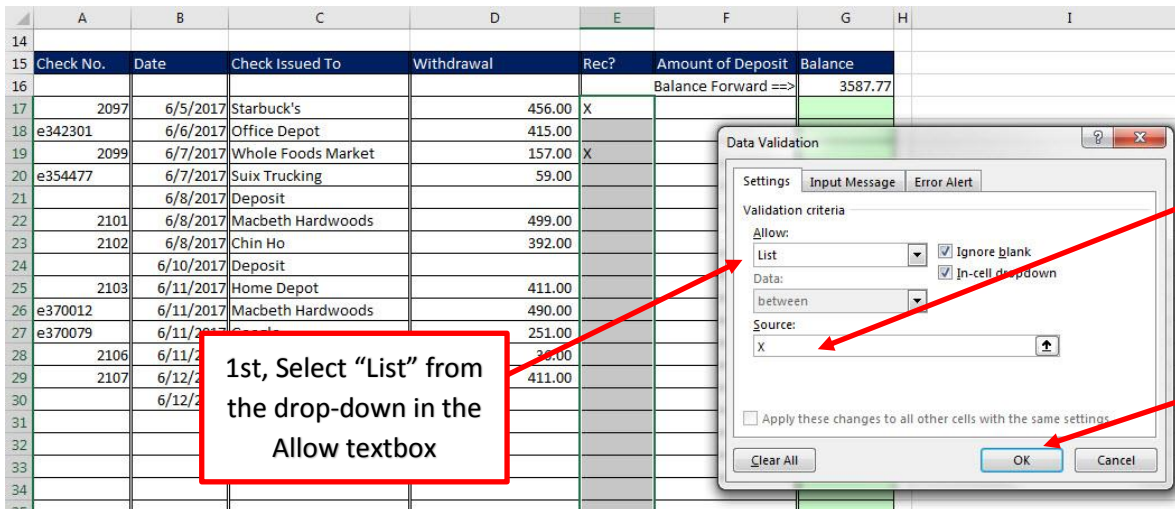
Step 1: Select the range E17:E40 and then in the Data Ribbon Tab, in the Data Tools group, click the Data Validation button.



The screenshot shows the Excel interface with the Data ribbon selected. The Data Tools group contains the Data Validation button, which is circled in red. The spreadsheet below shows a check register with columns for Check No., Date, Check Issued To, Withdrawal, Rec?, Amount of Deposit, and Balance. The Rec? column contains 'X' for checks and is highlighted in grey.

| Check No. | Date | Check Issued To | Withdrawal | Rec? | Amount of Deposit | Balance |
|-----------|-----------|--------------------|------------|------|---------------------|---------|
| | | | | | Balance Forward ==> | 3587.77 |
| 2097 | 6/5/2017 | Starbuck's | 456.00 | X | | |
| e342301 | 6/6/2017 | Office Depot | 415.00 | | | |
| 2099 | 6/7/2017 | Whole Foods Market | 157.00 | X | | |
| e354477 | 6/7/2017 | Suix Trucking | 59.00 | | | |
| | 6/8/2017 | Deposit | | | 588.00 | |
| 2101 | 6/8/2017 | Macbeth Hardwoods | 499.00 | | | |
| 2102 | 6/8/2017 | Chin Ho | 392.00 | | | |
| | 6/10/2017 | Deposit | | | 612.00 | |
| 2103 | 6/11/2017 | Home Depot | 411.00 | | | |
| e370012 | 6/11/2017 | Macbeth Hardwoods | 490.00 | | | |
| e370079 | 6/11/2017 | Google | 251.00 | | | |
| 2106 | 6/11/2017 | Starbuck's | 36.00 | | | |
| 2107 | 6/12/2017 | Sheliadawn Smith | 411.00 | | | |
| | 6/12/2017 | Deposit | | | 2,116.00 | |

Step 2: In the Data Validation dialog box, on the Settings Tab: 1) Select "List" from the drop-down in the Allow text box, then 2) Type a Capital X in the Source Textbox, 3) click OK.



The screenshot shows the Data Validation dialog box with the Settings tab selected. The 'Allow' dropdown is set to 'List' and the 'Source' text box contains 'X'. Red arrows point from text boxes to these elements.

1st, Select "List" from the drop-down in the Allow textbox

2nd, Type a Capital X in the Source Textbox

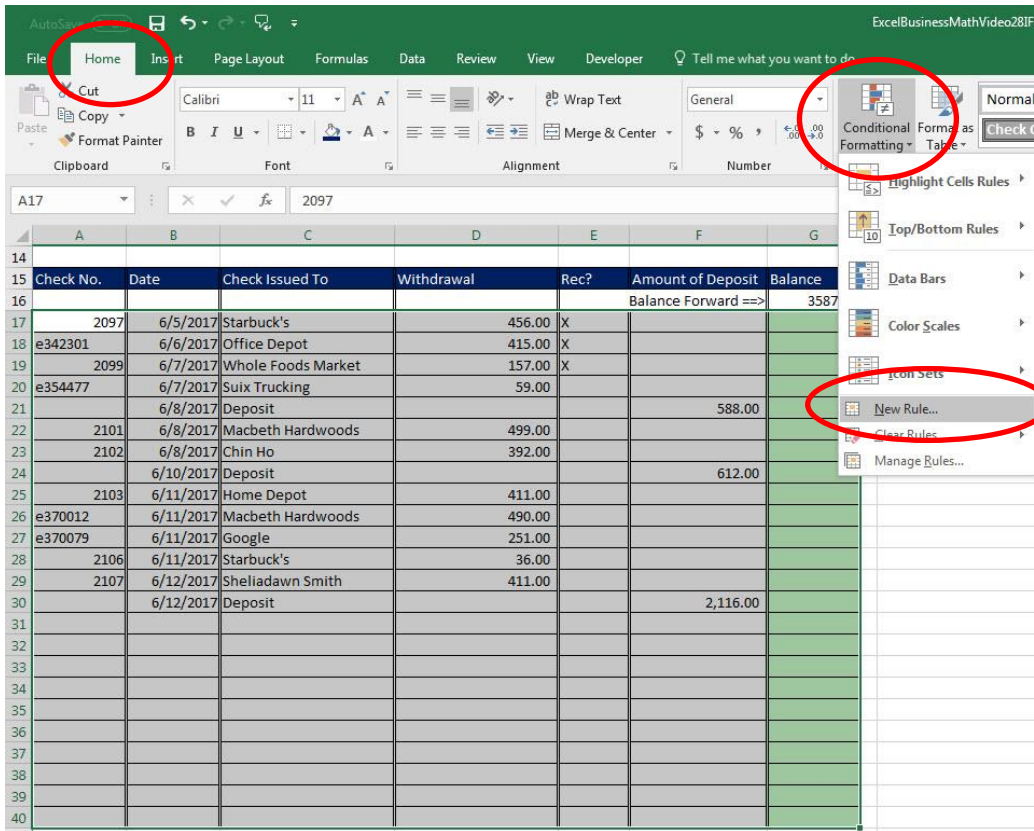
3rd, click OK

Step 3: Now there is a drop-down arrow to select your X. Each cell will now ONLY allow you to enter an X value.

| | A | B | C | D | E | F | G |
|----|------------------|-------------|------------------------|-------------------|-------------|--------------------------|----------------|
| 14 | | | | | | | |
| 15 | Check No. | Date | Check Issued To | Withdrawal | Rec? | Amount of Deposit | Balance |
| 16 | | | | | | Balance Forward ==> | 3587.77 |
| 17 | 2097 | 6/5/2017 | Starbuck's | 456.00 | X | | |
| 18 | e342301 | 6/6/2017 | Office Depot | 415.00 | | | |
| 19 | 2099 | 6/7/2017 | Whole Foods Market | 157.00 | X | | |
| 20 | e354477 | 6/7/2017 | Suix Trucking | 59.00 | | | |

3) Conditional Formatting to Highlight Reconciled Row as seen in this video

Step 1: Select the range A17:G40 and in the Home Ribbon Tab, in the Styles group, click the Conditional Formatting drop-down arrow and then click on "New Rule..."



Step 2: In the New Formatting Rule dialog box, click on the option “Use a formula to determine which cells to format”, then in the “Format values where this formula is true” textbox, create the formula: =E17="X". This formula will format the each when an “X” is entered into the “Rec?” Column. Finally, Click the Format button to decide what formatting should be applied when an “X” is entered into the “Rec?” Column.

1st, "Use a formula to determine which cells to format"

2nd, create the formula: =E17="X" in "Format values where this formula is true" textbox

3rd, Click Format

Step 3: In the Format Cells dialog box, add formatting, then click OK in the Format Cells dialog box and then OK in the New Formatting Rule dialog box.

Step 4: Now when you select an “X” from the drop down in the “Rec?” column, the row will be formatted:

| 15 | Check No. | Date | Check Issued To | Withdrawal | Rec? | Amount of Deposit | Balance |
|----|-----------|----------|--------------------|------------|------|---------------------|----------|
| 16 | | | | | | Balance Forward ==> | 3587.77 |
| 17 | 2097 | 6/5/2017 | Starbuck's | 456.00 | X | | 3,131.77 |
| 18 | e342301 | 6/6/2017 | Office Depot | 415.00 | | | 2,716.77 |
| 19 | 2099 | 6/7/2017 | Whole Foods Market | 157.00 | X | | 2,559.77 |
| 20 | e354477 | 6/7/2017 | Suix Trucking | 59.00 | | | 2,500.77 |

4) Calculate Balance Formula as seen in this video

Step 1: Create a Balance Formula with Relative Cell References that will add the “Amount of Deposit” and Subtract the “Withdrawal” from the balance from the previous row. Then copy the formula down the column.

| 14 | A | B | C | D | E | F | G | H |
|----|-----------|----------|--------------------|------------|------|---------------------|--------------|---|
| 15 | Check No. | Date | Check Issued To | Withdrawal | Rec? | Amount of Deposit | Balance | |
| 16 | | | | | | Balance Forward ==> | 3587.77 | |
| 17 | 2097 | 6/5/2017 | Starbuck's | 456.00 | X | | =G16+F17-D17 | |
| 18 | e342301 | 6/6/2017 | Office Depot | 415.00 | X | | | |
| 19 | 2099 | 6/7/2017 | Whole Foods Market | 157.00 | X | | | |
| 20 | e354477 | 6/7/2017 | Suix Trucking | 59.00 | | | | |

Step 2: After you copy the formula down the column, we notice that all the rows after the last transaction have the same balance, and we do not want that. Our goal is to edit and change the formula so that the formula will be run only when a date is entered into the date column, otherwise we want the cell to Show Nothing.

| 14 | A | B | C | D | E | F | G | H |
|----|-----------|-----------|--------------------|------------|------|---------------------|--------------|---|
| 15 | Check No. | Date | Check Issued To | Withdrawal | Rec? | Amount of Deposit | Balance | |
| 16 | | | | | | Balance Forward ==> | 3587.77 | |
| 17 | 2097 | 6/5/2017 | Starbuck's | 456.00 | X | | 3,131.77 | |
| 18 | e342301 | 6/6/2017 | Office Depot | 415.00 | X | | 2,716.77 | |
| 19 | 2099 | 6/7/2017 | Whole Foods Market | 157.00 | X | | 2,559.77 | |
| 20 | e354477 | 6/7/2017 | Suix Trucking | 59.00 | | | 2,500.77 | |
| 21 | | 6/8/2017 | Deposit | | | 588.00 | 3,088.77 | |
| 22 | 2101 | 6/8/2017 | Macbeth Hardwoods | 499.00 | | | 2,589.77 | |
| 23 | 2102 | 6/8/2017 | Chin Ho | 392.00 | | | 2,197.77 | |
| 24 | | 6/10/2017 | Deposit | | | 612.00 | 2,809.77 | |
| 25 | 2103 | 6/11/2017 | Home Depot | 411.00 | | | 2,398.77 | |
| 26 | e370012 | 6/11/2017 | Macbeth Hardwoods | 490.00 | | | 1,908.77 | |
| 27 | e370079 | 6/11/2017 | Google | 251.00 | | | 1,657.77 | |
| 28 | 2106 | 6/11/2017 | Starbuck's | 36.00 | | | 1,621.77 | |
| 29 | 2107 | 6/12/2017 | Shelladawn Smith | 411.00 | | | 1,210.77 | |
| 30 | | 6/12/2017 | Deposit | | | 2,116.00 | 3,326.77 | |
| 31 | | | | | | | 3,326.77 | |
| 32 | | | | | | | 3,326.77 | |
| 33 | | | | | | | 3,326.77 | |
| 34 | | | | | | | 3,326.77 | |
| 35 | | | | | | | 3,326.77 | |
| 36 | | | | | | | 3,326.77 | |
| 37 | | | | | | | 3,326.77 | |
| 38 | | | | | | | 3,326.77 | |
| 39 | | | | | | | 3,326.77 | |
| 40 | | | | | | | =G39+F40-D40 | |

5) IS Functions: Logical Function to yield a TRUE or FALSE based on a Logical Test as seen in this video

1. Reminder: Logical Formulas deliver a TRUE or FALSE based on a Logical Test
2. So far in this class we have seen how to create Logical Formulas using Comparative Operators like the equal sign.
3. We can also use a set of IS Functions in Excel like these:
 - ISNUMBER function to check whether cell contains a Number
 - ISBLANK function to check whether cell is Empty
 - ISFORMULA to check whether a cell contains a formula

Step 1: As seen in the video, we can use the ISNUMBER to check whether or not a number has been entered into the Date Column (Remember from Video #4 in this class: Dates, Times and Numbers are all considered to be the Data Type “Number” in Excel).

| A | B | C | D | E | F | G | H | I |
|----|-----------|----------|--------------------|------------|------|---------------------|----------|--|
| 14 | | | | | | | | |
| 15 | Check No. | Date | Check Issued To | Withdrawal | Rec? | Amount of Deposit | Balance | |
| 16 | | | | | | Balance Forward ==> | 3587.77 | Does Cell in Date Column contain a Number? |
| 17 | 2097 | 6/5/2017 | Starbuck's | 456.00 | X | | 3,131.77 | =ISNUMBER(B17) |
| 18 | e342301 | 6/6/2017 | Office Depot | 415.00 | X | | 2,716.77 | ISNUMBER(value) |
| 19 | 2099 | 6/7/2017 | Whole Foods Market | 157.00 | X | | 2,559.77 | |
| 20 | e354477 | 6/7/2017 | Suix Trucking | 59.00 | | | 2,500.77 | |
| 21 | | 6/8/2017 | Deposit | | | 588.00 | 3,088.77 | |

Step 2: When we copy the ISNUMBER Formula down, we can see the pattern of TRUES and FALSEs that are based on the Date Column. Now we can use this Logical Pattern with the IF Function to put the Balance Formula into each cell that has a TRUE and the formula equivalent of “Show Nothing” into each cell that has a FALSE.

| A | B | C | D | E | F | G | H | I |
|----|-----------|-----------|--------------------|------------|------|---------------------|----------|--|
| 14 | | | | | | | | |
| 15 | Check No. | Date | Check Issued To | Withdrawal | Rec? | Amount of Deposit | Balance | |
| 16 | | | | | | Balance Forward ==> | 3587.77 | Does Cell in Date Column contain a Number? |
| 17 | 2097 | 6/5/2017 | Starbuck's | 456.00 | X | | 3,131.77 | TRUE |
| 18 | e342301 | 6/6/2017 | Office Depot | 415.00 | X | | 2,716.77 | TRUE |
| 19 | 2099 | 6/7/2017 | Whole Foods Market | 157.00 | X | | 2,559.77 | TRUE |
| 20 | e354477 | 6/7/2017 | Suix Trucking | 59.00 | | | 2,500.77 | TRUE |
| 21 | | 6/8/2017 | Deposit | | | 588.00 | 3,088.77 | TRUE |
| 22 | 2101 | 6/8/2017 | Macbeth Hardwoods | 499.00 | | | 2,589.77 | TRUE |
| 23 | 2102 | 6/8/2017 | Chin Ho | 392.00 | | | 2,197.77 | TRUE |
| 24 | | 6/10/2017 | Deposit | | | 612.00 | 2,809.77 | TRUE |
| 25 | 2103 | 6/11/2017 | Home Depot | 411.00 | | | 2,398.77 | TRUE |
| 26 | e370012 | 6/11/2017 | Macbeth Hardwoods | 490.00 | | | 1,908.77 | TRUE |
| 27 | e370079 | 6/11/2017 | Google | 251.00 | | | 1,657.77 | TRUE |
| 28 | 2106 | 6/11/2017 | Starbuck's | 36.00 | | | 1,621.77 | TRUE |
| 29 | 2107 | 6/12/2017 | Sheliadawn Smith | 411.00 | | | 1,210.77 | TRUE |
| 30 | | 6/12/2017 | Deposit | | | 2,116.00 | 3,326.77 | TRUE |
| 31 | | | | | | | 3,326.77 | FALSE |
| 32 | | | | | | | 3,326.77 | FALSE |
| 33 | | | | | | | 3,326.77 | FALSE |
| 34 | | | | | | | 3,326.77 | FALSE |
| 35 | | | | | | | 3,326.77 | FALSE |
| 36 | | | | | | | 3,326.77 | FALSE |
| 37 | | | | | | | 3,326.77 | FALSE |
| 38 | | | | | | | 3,326.77 | FALSE |
| 39 | | | | | | | 3,326.77 | FALSE |
| 40 | | | | | | | 3,326.77 | =ISNUMBER(B40) |
| 41 | | | | | | | | ISNUMBER(value) |

6) IF Function to put either Calculate Balance Formula or "Show Nothing" in each cell as seen in this video

1. The IF Function

- The IF Function is a Logical Function that puts one of two things into a cell based on Logical Test.
- Anytime you have one of two things that can go into a cell, the IF Function is the perfect function to use!!!
- The IF Function had three arguments: =IF(logical_test,value_if_true,value_if_false)
 - i. **logical_test** = a formula element that comes out TRUE or FALSE
 - ii. **value_if_true** = What to put in the cell if the logical_test comes out TRUE
 - iii. **value_if_false** = What to put in the cell if the logical_test comes out FALSE

2. How to Show Nothing in a Cell with a Formula using "" (Two Double Quotes with no characters, not even a space between them)

- In a formula, "" (Double Quote, Double Quote) is the syntax to have a formula **Show Nothing** in a cell.
- When we use Two Double Quotes (no space between them) in a formula, we are actually putting a **Zero Length Text String** into the cell.
- This **Zero Length Text String** is considered a "Text" Data Type by Excel.
- Even though it is considered "Text" by Excel, it is what we use in formulas when we want the formula to show nothing in the cell.

Step 1: For the **logical_test** in the IF function we can use the ISNUMBER Function and have it look at the date in the Date Column using a Relative Cell Reference. This logical_test using the ISNUMBER will come out TRUE where there is a date in the Date Column and FALSE when there is no date.

| | A | B | C | D | E | F | G | H | I |
|----|-----------|----------|--------------------|------------|------|---------------------|---|---|---|
| 14 | | | | | | | | | |
| 15 | Check No. | Date | Check Issued To | Withdrawal | Rec? | Amount of Deposit | Balance | | |
| 16 | | | | | | Balance Forward ==> | 3587.77 | | |
| 17 | 2097 | 6/5/2017 | Starbuck's | 456.00 | | | =IF(ISNUMBER(B17),G16+F17-D17,"") | | |
| 18 | e342301 | 6/6/2017 | Office Depot | 415.00 | | | IF(logical_test, [value_if_true], [value_if_false]) | | |
| 19 | 2099 | 6/7/2017 | Whole Foods Market | 157.00 | | | 2,559.77 | | |

Step 2: For the **value_if_true** argument in IF function, we put the Balance Formula. This way the IF Function can put the Balance Formula into the cell when the ISNUMBER delivers a TRUE.

| | A | B | C | D | E | F | G | H | I |
|----|-----------|----------|--------------------|------------|------|---------------------|---|---|---|
| 14 | | | | | | | | | |
| 15 | Check No. | Date | Check Issued To | Withdrawal | Rec? | Amount of Deposit | Balance | | |
| 16 | | | | | | Balance Forward ==> | 3587.77 | | |
| 17 | 2097 | 6/5/2017 | Starbuck's | 456.00 | | | =IF(ISNUMBER(B17),G16+F17-D17,"") | | |
| 18 | e342301 | 6/6/2017 | Office Depot | 415.00 | | | IF(logical_test, [value_if_true], [value_if_false]) | | |
| 19 | 2099 | 6/7/2017 | Whole Foods Market | 157.00 | | | 2,559.77 | | |

Step 3: For the **value_if_false** argument in IF function, we put the syntax to **Show Nothing**, our **Zero Length Text String**, **""**. This way the IF Function can Show Nothing in the cell when the ISNUMBER delivers a FALSE.

| | A | B | C | D | E | F | G | H | I |
|----|-----------|----------|-----------------|------------|------|---------------------|---|---|---|
| 14 | | | | | | | | | |
| 15 | Check No. | Date | Check Issued To | Withdrawal | Rec? | Amount of Deposit | Balance | | |
| 16 | | | | | | Balance Forward ==> | 3587.77 | | |
| 17 | 2097 | 6/5/2017 | Starbuck's | 456.00 | | | =IF(ISNUMBER(B17),G16+F17-D17,"") | | |
| 18 | e342301 | 6/6/2017 | Office Depot | 415.00 | | | IF(logical_test, [value_if_true], [value_if_false]) | | |

Step 4: All together the three parts of the IF Function look like this:

=IF(ISNUMBER(B17),G16+F17-D17,"")

1) Logical Test that comes out TRUE or FALSE. Tests whether or not there is a Number in the Date Column

2) Balance Formula gets put into cell when ISNUMBER comes out TRUE

3) **Show Nothing** gets put into cell when ISNUMBER comes out FALSE

Step 5: For Each Cell, the IF Function delivers one of two things: Balance Formula or Show Nothing.

| | A | B | C | D | E | F | G | H | I |
|----|-----------|-----------|--------------------|------------|------|---------------------|-----------------------------------|---|---|
| 14 | | | | | | | | | |
| 15 | Check No. | Date | Check Issued To | Withdrawal | Rec? | Amount of Deposit | Balance | | |
| 16 | | | | | | Balance Forward ==> | 3587.77 | | |
| 17 | 2097 | 6/5/2017 | Starbuck's | 456.00 | | | 3,131.77 | | |
| 18 | e342301 | 6/6/2017 | Office Depot | 415.00 | | | 2,716.77 | | |
| 19 | 2099 | 6/7/2017 | Whole Foods Market | 157.00 | | | 2,559.77 | | |
| 20 | e354477 | 6/7/2017 | Suix Trucking | 59.00 | | | 2,500.77 | | |
| 21 | | 6/8/2017 | Deposit | | | 588.00 | 3,088.77 | | |
| 22 | 2101 | 6/8/2017 | Macbeth Hardwoods | 499.00 | | | 2,589.77 | | |
| 23 | 2102 | 6/8/2017 | Chin Ho | 392.00 | | | 2,197.77 | | |
| 24 | | 6/10/2017 | Deposit | | | 612.00 | 2,809.77 | | |
| 25 | 2103 | 6/11/2017 | Home Depot | 411.00 | | | 2,398.77 | | |
| 26 | e370012 | 6/11/2017 | Macbeth Hardwoods | 490.00 | | | 1,908.77 | | |
| 27 | e370079 | 6/11/2017 | Google | 251.00 | | | 1,657.77 | | |
| 28 | 2106 | 6/11/2017 | Starbuck's | 36.00 | | | 1,621.77 | | |
| 29 | 2107 | 6/12/2017 | Sheliadawn Smith | 411.00 | | | 1,210.77 | | |
| 30 | | 6/12/2017 | Deposit | | | 2,116.00 | 3,326.77 | | |
| 31 | | | | | | | | | |
| 32 | | | | | | | | | |
| 33 | | | | | | | | | |
| 34 | | | | | | | | | |
| 35 | | | | | | | | | |
| 36 | | | | | | | | | |
| 37 | | | | | | | | | |
| 38 | | | | | | | | | |
| 39 | | | | | | | | | |
| 40 | | | | | | | =IF(ISNUMBER(B40),G39+F40-D40,"") | | |
| 41 | | | | | | | | | |

Step 6: As an alternative for the checkbook register IF Function formula, you can use the ISBLANK Logical Function to check whether or not the Date Column Cell is Empty. If the Cell in the Date Column is empty, then the formula will Show Nothing. If the Cell in the Date Column is NOT empty, then the formula put the Balance Formula in the cell.

=IF(ISBLANK(B49),"",G48+F49-D49)

1) Logical Test that comes out TRUE or FALSE. Tests whether or not the cell in the Date Column is Empty.

2) **Show Nothing** gets put into cell when ISBLANK comes out TRUE

3) Balance Formula gets put into cell when ISBLANK comes out FALSE

7) ISFORMULA & FORMULATEXT to show formulas after you enter them into cell as seen in this video

| | | | | | | | |
|----|-----------------------------|--------------|--------------------|------------------------|---------------------------------------|--|--|
| 3 | | | | | | | |
| 4 | Description | Value | Term | Type of Formula | Actual Formula | | |
| 5 | Stock | QVC | | | | | |
| 6 | Stock Value at Begin of Day | 15.75 | Begin | | =IF(ISFORMULA(B6),FORMULATEXT(B6),"") | | |
| 7 | Stock Value at End of Day | 17.45 | End Part | | | | |
| 8 | Amount of Change | 1.7 | Change Part | End Part - Begin | =B7-B6 | | |
| 9 | % Change | 0.107936508 | Rate of Change ROC | Change Part/Begin | =B8/B6 | | |
| 10 | 1 + % Change | 1.107936508 | Rate | 1 + ROC | =1+B9 | | |

=IF(ISFORMULA(B6),FORMULATEXT(B6),"")

1) ISFORMULA checks to see if a formula is in the cell TRUE (Formula) or FALSE (NOT a Formula)

3) The Formula gets put into cell as text when ISFORMULA comes out TRUE

2) **Show Nothing** gets put into cell when ISFORMULA comes out FALSE

8) IF Function, ISBLANK (or ISNUMBER) and Zero Length Text String to create Balance Formula for Inventory Tracking Table

| | A | B | C | D | E | F | G | H | I | J | |
|----|--|---------------------------|-----------------------|----------------------|----------------|---------|---------------------------------|---------|----------------------|----------------------------------|--|
| 1 | Below is an Inventory Tracking Table. | | | | | | | | | | |
| 2 | The "Number of Items Purchased" Column contains the number of inventory items purchased (added to balance). | | | | | | | | | | |
| 3 | The "Number of Items Sold" Column contains the number of inventory items sold (subtracted from balance). | | | | | | | | | | |
| 4 | In cell F10 create a formula that can calculate the inventory balance when a date is entered into the date column, | | | | | | | | | | |
| 5 | or show nothing when a date is not entered. Then copy the formula down the column. | | | | | | | | | | |
| 6 | | | | | | | | | | | |
| 7 | Inventory Tracker for Quad Boomerang | | | | | | | | | | |
| 8 | Date | Number of Items Purchased | Purchase Order Number | Number of Items Sold | Invoice Number | Balance | | | | | |
| 9 | Inventory Count from End of Last Period =====>>>>>>>>> | | | | | 102 | | | Other Possibilities: | | |
| 10 | 2/16/2018 | | | 45 | IN #10266 | 57 | =IF(ISBLANK(A10),"",F9-D10+B10) | OR ==>> | 57 | =IF(ISNUMBER(A10),F9+B10-D10,"") | |
| 11 | 2/16/2018 | | | 10 | IN #10291 | 47 | | | 47 | | |
| 12 | 2/17/2018 | 144 | PO # 611296 | | | 191 | | | 191 | | |
| 13 | 2/17/2018 | | | 2 | IN #10301 | 189 | | | 189 | | |
| 14 | 2/18/2018 | | | 24 | IN #10309 | 165 | | | 165 | | |
| 15 | 2/20/2018 | | | 48 | IN #10445 | 117 | | | 117 | | |
| 16 | 2/22/2018 | | | 54 | IN #10500 | 63 | | | 63 | | |
| 17 | 2/22/2018 | 224 | PO # 611317 | | | 287 | | | 287 | | |
| 18 | 2/22/2018 | | | 144 | IN #10521 | 143 | | | 143 | | |
| 19 | 2/23/2018 | | | 24 | IN #10544 | 119 | | | 119 | | |
| 20 | 2/24/2018 | 144 | PO # 611329 | | | 263 | | | 263 | | |
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