



Datasheet

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All examples provided in this work are complete fiction.

All formulas and calculations described in this work can not be relied on.

Viewing Suggestion

This electronic document has been designed for viewing directly with Adobe Acrobat Reader or printing to an ISO A5 size booklet.

<u>Cover Photo</u> Amatuer photo taken at the site of the The Twelve Apostles located along the Great Ocean Road in Australia.

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How do I create a series of numbers?

Automatic Series Completion

There are many times when you want to create a series of numbers or dates across a row or column. You can create a series manually by typing 1, 2, 3, ... into their respective cells or by using a formula such as C4+1, C5+1, etc.

Microsoft Excel provides a convenient shortcut to creating a series, simply by starting the first and second cells in the series, selecting the two cells and then dragging selection area out to the required set of cells.

Scenario - Creating a series of years

Consider a cash flow table that summarises the income and expenses over a series of years as shown below.

| | А | В | | С | | D | | Е | | F | | G |
|---|---------------------------------|---------|-------|--------|----|--------|----|--------|----|--------|----|--------|
| 1 | Example - Yearly Cashflow Table | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | Yearly Cashflow | | | | | | | | | | | |
| 4 | Income | \$ 45,0 | 00 \$ | 45,000 | \$ | 45,000 | \$ | 45,000 | \$ | 45,000 | \$ | 45,000 |
| 5 | Expenses | \$ 38,2 | 99 \$ | 39,234 | \$ | 40,134 | \$ | 42,999 | \$ | 43,087 | \$ | 44,933 |
| 6 | Net | \$ 6,7 |)1 \$ | 5,766 | \$ | 4,866 | \$ | 2,001 | \$ | 1,913 | \$ | 67 |
| 7 | | | | | | | | | | | | |

Step 1: Enter the first two years of the series

To create a series we need to tell Excel what the series is. In our example Cell B3 is "01/01/2000" and C3 is "01/01/2001" as shown below. Note that the cell formatting in this example is set so that only the year is shown.

| | А | В | С | D | Е | F | G | | | | | |
|---|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|--|--|--|--|--|
| 1 | 1 Example - Yearly Cashflow Table | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | Yearly Cashflow | 2000 | 2001 | | | | | | | | | |
| 4 | Income | \$ 45,000 | \$ 45,000 | \$ 45,000 | \$ 45,000 | \$ 45,000 | \$ 45,000 | | | | | |
| 5 | Expenses | \$ 38,299 | \$ 39,234 | \$ 40,134 | \$ 42,999 | \$ 43,087 | \$ 44,933 | | | | | |
| 6 | Net | \$ 6,701 | \$ 5,766 | \$ 4,866 | \$ 2,001 | \$ 1,913 | \$ 67 | | | | | |
| _ | | | | | | | | | | | | |

Step 2: Select the cells that show first and second elements of the series

Click-and-drag with the mouse to select cells B3 and C3.

| А | В | С | D | Е | F | G | | | | |
|-----------------------------------|---------------------------------------|---|---|---|---|---|--|--|--|--|
| 1 Example - Yearly Cashflow Table | | | | | | | | | | |
| | | | _ | | | | | | | |
| Yearly Cashflow | 2000 | 2001 | | | | | | | | |
| Income | \$ 45,000 | \$ 45,000 | \$ 45,000 | \$ 45,000 | \$ 45,000 | \$ 45,000 | | | | |
| Expenses | \$ 38,299 | \$ 39,234 | \$ 40,134 | \$ 42,999 | \$ 43,087 | \$ 44,933 | | | | |
| Net | \$ 6,701 | \$ 5,766 | \$ 4,866 | \$ 2,001 | \$ 1,913 | \$ 67 | | | | |
| | Yearly Cashflow Income Expenses | Example - Yearly Cashf Yearly Cashflow 2000 Income \$ 45,000 Expenses \$ 38,299 | Example - Yearly Cashflow Table Yearly Cashflow 2000 2001 Income \$ 45,000 \$ 45,000 Expenses \$ 38,299 \$ 39,234 | Example - Yearly Cashflow Table Yearly Cashflow 2000 2001 Income \$ 45,000 \$ 45,000 \$ 45,000 Expenses \$ 38,299 \$ 39,234 \$ 40,134 | Example - Yearly Cashflow Table Yearly Cashflow 2000 2001 Income \$ 45,000 \$ 45,000 \$ 45,000 \$ 45,000 Expenses \$ 38,299 \$ 39,234 \$ 40,134 \$ 42,999 | Example - Yearly Cashflow Table Yearly Cashflow 2000 2001 Income \$ 45,000 \$ 4 | | | | |

Step 3: Click-and-drag the bottom-left corner of the cell and drag to complete the series

Use the mouse to click-and-hold the bottom-left corner of cell C3.

The drag the selection out until G3. The screen should look similar to below.

| | А | | В | | С | | D | | Е | | F | | G |
|---|---------------------------------|----|--------|----|--------|----|--------|----|--------|----|--------|-----|---------|
| 1 | Example - Yearly Cashflow Table | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | |
| 3 | Yearly Cashflow | | 2000 | | 2001 | | | | | | | | |
| 4 | Income | \$ | 45,000 | \$ | 45,000 | \$ | 45,000 | \$ | 45,000 | \$ | 45,000 | \$2 | 005 POO |
| 5 | Expenses | \$ | 38,299 | \$ | 39,234 | \$ | 40,134 | \$ | 42,999 | \$ | 43,087 | \$ | 44,933 |
| 6 | Net | \$ | 6,701 | \$ | 5,766 | \$ | 4,866 | \$ | 2,001 | \$ | 1,913 | \$ | 67 |

Once the series region is selected then release the mouse button.

Finish: Excel will automatically complete the series for the selection.

| | А | В | С | D | Е | F | G | | | | |
|---|---------------------------------|-----------------|-----------|-----------------|-----------------|-----------------|-----------|--|--|--|--|
| 1 | Example - Yearly Cashflow Table | | | | | | | | | | |
| 2 | | | | | | | | | | | |
| 3 | Yearly Cashflow | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | | | | |
| 4 | Income | \$ 45,000 | \$ 45,000 | \$ 45,000 | \$ 45,000 | \$ 45,000 | \$ 45,000 | | | | |
| 5 | Expenses | \$ 38,299 | \$ 39,234 | \$ 40,134 | \$ 42,999 | \$ 43,087 | \$ 44,933 | | | | |
| 6 | Net | \$ 6,701 | \$ 5,766 | \$ 4,866 | \$ 2,001 | \$ 1,913 | \$ 67 | | | | |
| 6 | Net | \$ 6,/U1 | \$ 5,/66 | \$ 4,866 | \$ 2,001 | \$ 1,913 | Ф | | | | |

How do I see all the formulas on a worksheet?

View Formulae In Cells

Sometimes it is handy to view (and print) the formulae in all the cells in a spreadsheet without having to manually enter each cell. Being able to view all the formulae makes it easier to debug our own spreadsheets as well as making it simpler to understand other people's spreadsheets.

Scenario - Viewing the formulae in a table.

You may have a table that contains a list of names (Column A), their net wealth (Column B) and the number of years they have been working (Column C). Behind the scenes the spreadsheet calculates the amount of money each person made (Column D) and the average amount made across our sample selection (Cell D19).

| | А | В | С | D |
|----|-----------------------|----------|---------------|---------------|
| 1 | Example - How to View | Formula | as in All Cel | Is |
| 2 | | | | |
| | Name | Net | Years | Made Per |
| 3 | | Worth | Worked | Year |
| 4 | Person 1 | \$191.2M | 18 | \$ 10.62 M/yr |
| 5 | Person 2 | \$179.4M | 25 | \$ 7.17 M/yr |
| 6 | Person 3 | \$171.3M | 33 | \$ 5.19 M/yr |
| 7 | Person 4 | \$138.7M | 27 | \$5.14 M/yr |
| 8 | Person 5 | \$143.3M | 38 | \$3.77 M/yr |
| 9 | Person 6 | \$181.7M | 15 | \$ 12.11 M/yr |
| 10 | Person 7 | \$113.5M | 45 | \$ 2.52 M/yr |
| 11 | Person 8 | \$157.3M | 38 | \$ 4.14 M/yr |
| 12 | Person 9 | \$173.3M | 14 | \$ 12.38 M/yr |
| 13 | Person 10 | \$176.6M | 28 | \$ 6.31 M/yr |
| 14 | Person 11 | \$119.1M | 43 | \$ 2.77 M/yr |
| 15 | Person 12 | \$199.4M | 41 | \$ 4.86 M/yr |
| 16 | Person 13 | \$192.8M | 36 | \$ 5.35 M/yr |
| 17 | Person 14 | \$155.1M | 36 | \$ 4.31 M/yr |
| 18 | | | | |
| 19 | | Avei | rage Amount= | \$ 6.19 M/yr |
| ~~ | | | | |

Step 1: Press the Ctrl and ~ keys on the keyboard at the same time to view.

Pressing the Ctrl and ~ keys shows the formulae in every cell on the worksheet. You are now able to view the underlying logic of this spreadsheet.

| | А | В | С | D |
|----|----------------------|-------------------|--------------------|------------------|
| 1 | Example - How to Vie | | | |
| 2 | | | | |
| | Name | Net Worth | Years Worked | Made Per Year |
| 3 | | | | |
| 4 | Person 1 | =(RAND()*100+100) | =INT(RAND()*40+10) | =B4/C4 |
| 5 | Person 2 | =(RAND()*100+100) | =INT(RAND()*40+10) | =B5/C5 |
| 6 | Person 3 | =(RAND()*100+100) | =INT(RAND()*40+10) | =B6/C6 |
| 7 | Person 4 | =(RAND()*100+100) | =INT(RAND()*40+10) | =B7/C7 |
| 8 | Person 5 | =(RAND()*100+100) | =INT(RAND()*40+10) | =B8/C8 |
| 9 | Person 6 | =(RAND()*100+100) | =INT(RAND()*40+10) | =B9/C9 |
| 10 | Person 7 | =(RAND()*100+100) | =INT(RAND()*40+10) | =B10/C10 |
| 11 | Person 8 | =(RAND()*100+100) | =INT(RAND()*40+10) | =B11/C11 |
| 12 | Person 9 | =(RAND()*100+100) | =INT(RAND()*40+10) | =B12/C12 |
| 13 | Person 10 | =(RAND()*100+100) | =INT(RAND()*40+10) | =B13/C13 |
| 14 | Person 11 | =(RAND()*100+100) | =INT(RAND()*40+10) | =B14/C14 |
| 15 | Person 12 | =(RAND()*100+100) | =INT(RAND()*40+10) | =B15/C15 |
| 16 | Person 13 | =(RAND()*100+100) | =INT(RAND()*40+10) | =B16/C16 |
| 17 | Person 14 | =(RAND()*100+100) | =INT(RAND()*40+10) | =B17/C17 |
| 18 | | | | |
| 19 | | | Average Amount = | =AVERAGE(D4:D17) |

<u>Helping Note:</u> In this current view you can print this page out to your printer.

Step 2: Press the Ctrl and ~ keys to return to the normal view.

How do I highlight a cell based on special conditions?

Conditional Formatting

There are many occasions where you may want to have Excel change the formatting of a cell and its contents depending on the value in the cell. This could be handy to highlight sections of your spreadsheet based on different scenarios.

Scenario - Bank Account Balance

You may have a cell that contains the total balance of all your bank accounts and it gets highlighted in yellow if the balance falls below \$0.

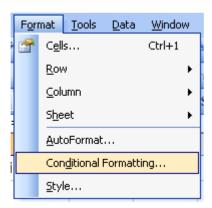
The figure below shows the spreadsheet with a "Net Value" > \$0.00. The formatting of this cell is in its normal format.

| | Α | В | С | D | Е | | | | |
|----|----------------------------------|-------------------|----------|---|---|--|--|--|--|
| 1 | Example - Conditional Formatting | | | | | | | | |
| 2 | | | | | | | | | |
| 3 | Ban | k Accounts | | | | | | | |
| 4 | | Savings Account 1 | \$2,100 | | | | | | |
| 5 | | Savings Account 2 | \$1,500 | | | | | | |
| 6 | | Credit Card 1 | \$0 | | | | | | |
| 7 | | Credit Card 2 | -\$200 | | | | | | |
| 8 | | Credit Card 3 | -\$1,800 | | | | | | |
| 9 | | Net Value = | \$1,600 | | | | | | |
| 10 | | | | | | | | | |

For financial security we want Excel to highlight the "Net Value" (cell C9) when the net value amount drops below \$0.00.

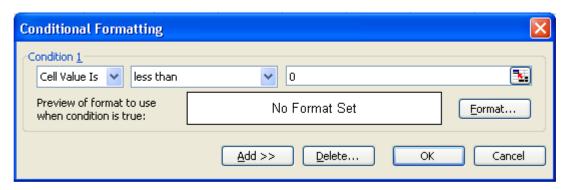
Step 1: Select the cell we want to apply conditional formatting to

| | Α | В | С | D | Е | | | | | |
|----|-----|----------------------------------|----------|---|---|--|--|--|--|--|
| 1 | Еx | Example - Conditional Formatting | | | | | | | | |
| 2 | | | | | | | | | | |
| 3 | Ban | k Accounts | | | | | | | | |
| 4 | | Savings Account 1 | \$2,100 | | | | | | | |
| 5 | | Savings Account 2 | \$1,500 | | | | | | | |
| 6 | | Credit Card 1 | \$0 | | | | | | | |
| 7 | | Credit Card 2 | -\$200 | | | | | | | |
| 8 | | Credit Card 3 | -\$1,800 | | | | | | | |
| 9 | | Net Value = | \$1,600 | | | | | | | |
| 10 | | | | | | | | | | |

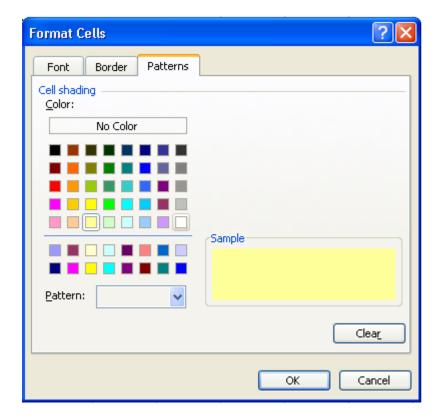


Step 2: Select the Conditional Formatting menu item as shown right

Step 3: Tell Excel what the special formatting conditions are



Step 4: Press the Format button to set the format of the cell when this condition is met



Step 5: Press OK to accept the conditions and conditional cell formatting

In the Format Cells dialog box, press the OK button to accept the conditional cell format.

In the Conditional Formatting dialog box, press the OK button apply the conditions.

Let us assume that we went out shopping that day and spent \$2,000 using Credit Card 1 and updated cell C6 to reflect this change. As you can see, the Net Value has dropped below \$0 and the cell automatically highlights this.

| | Α | В | С | D | Е | | | | |
|----|-----|-------------------|------------|-------------------|---|--|--|--|--|
| 1 | Еx | ample - Condi | itional Fo | tional Formatting | | | | | |
| 2 | | | | | | | | | |
| 3 | Ban | k Accounts | | | | | | | |
| 4 | | Savings Account 1 | \$2,100 | | | | | | |
| 5 | | Savings Account 2 | \$1,500 | | | | | | |
| 6 | | Credit Card 1 | -\$2,000 | | | | | | |
| 7 | | Credit Card 2 | -\$200 | | | | | | |
| 8 | | Credit Card 3 | -\$1,800 | | | | | | |
| 9 | | Net Value = | -\$400 | | | | | | |
| 10 | | | | | | | | | |

How do I create an IF formula?

IF Statements

Normally we calculate the value of a cell based on the value in another cell, for example multiply a value by 4 and put that answer in another cell. Occasionally we want to calculate the value of a cell only if a certain criteria is met.

Scenario - Applying an automatic discount on an invoice.

In this example we want to create an invoice that automatically applies a 10% discount if the original value of the order exceeds \$100.

The figure below shows a sample invoice spreadsheet. Each line (Lines 4, 5, 6 and 7) is individually tallied and then subtotalled in Cell E9.

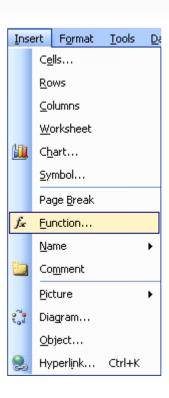
| | А | В | С | D | E |
|----|-----------|---------------------|-------------------|------------|----------|
| 1 | Exampl | e - Automatic II | nvoice D | iscount | System |
| 2 | | | | | |
| 3 | Order Des | cription | Unit Price | Qauntity | Cost |
| 4 | Item 1 | Ball Point Pens | \$0.35 | 100 | \$35.00 |
| 5 | Item 2 | Whiteboard markers | \$2.95 | 2 | \$5.90 |
| 6 | Item 3 | Executive Pens | \$9.95 | 5 | \$49.75 |
| 7 | Item 4 | Executive Gift Sets | \$35.95 | 5 | \$179.75 |
| 8 | | | | | |
| 9 | | | | Subtotal = | \$270.40 |
| 10 | | | | Discount= | |
| 11 | | | | Total = | \$270.40 |

Step 1: Select the cell that will contain the conditional calculation (IF statement).

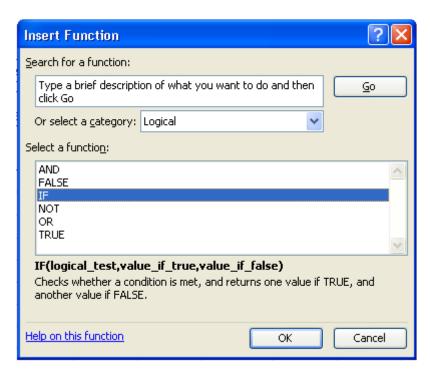
Click on the E10 cell.

| | А | В | С | D | E |
|----|-----------|---------------------|-------------------|------------|----------|
| 1 | Exampl | e - Automatic II | nvoice D | iscount | System |
| 2 | | | | | |
| 3 | Order Des | cription | Unit Price | Qauntity | Cost |
| 4 | Item 1 | Ball Point Pens | \$0.35 | 100 | \$35.00 |
| 5 | Item 2 | Whiteboard markers | \$2.95 | 2 | \$5.90 |
| 6 | Item 3 | Executive Pens | \$9.95 | 5 | \$49.75 |
| 7 | Item 4 | Executive Gift Sets | \$35.95 | 5 | \$179.75 |
| 8 | | | | | |
| 9 | | | | Subtotal = | \$270.40 |
| 10 | | | | Discount= | |
| 11 | | | | Total = | \$270.40 |
| | | | | | |

Step 2: Select the Paste Function Menu item as shown right



Step 3: Select the IF statement from the Paste Function selection box



In the Paste Function dialog box, select "Logical" from the Function Category and "IF" from the Function Name then press the OK button.

В C Example - Automatic Invoice Discount System 1 2 3 Order Description Unit Price Quantity Cost \$0.35 \$35.00 4 Item 1 Ball Point Pens 100 5 Item 2 Whiteboard markers \$2.95 2 \$5.90 6 Item 3 **Executive Pens** \$9.95 5 \$49.75 7 **Executive Gift Sets** \$35.95 Item 4 5 \$179.75 8 9 Subtotal = \$270.40 10 Discount = % * E9,0) 11 \$270.40 Total = 12 **Function Arguments** Logical_test E9 > 100 🔣 = TRUE Value_if_true -10% * E9 **1.** = -27.04 Value_if_false 0 **1** = 0 Checks whether a condition is met, and returns one value if TRUE, and another value if FALSE. Value_if_false is the value that is returned if Logical_test is FALSE. If omitted, FALSE is Formula result = -\$27.04 Help on this function OK Cancel

Step 4: Enter the conditional formula into the Paste Function helper

Helping Note: You can move the helper box around the screen by click-anddragging anywhere in the grey area of the box.

The "Logical test" field determines what special conditions we want to apply. In this case, the special condition is when the subtotal field (Cell E9) is greater than \$100.00 (100).

In the circumstances where the Logical_test is "True" then the "Value_if_true" field is applied. In this case the subtotal field (E9) exceeds \$100.00 (E9=\$270.40) so the Logical_test is true and we want to apply a discount of 10% to the subtotal amount (formula = -10% * E9).

In the circumstances where the Logical_test is "False" then the "Value_if_false" field is applied. In our formula we want a discount of \$0.00 applied when the subtotal field (E9) is less than or equal to \$100.00.

Press the OK button when you are satisfied that the formula is correct.

In our example the subtotal value is \$270.40, which exceeds the \$100.00 threshold so a 10% discount is applied.

| | A B | | С | D | Е |
|----|-----------|---------------------|------------|------------|----------|
| 1 | Exampl | le - Automatic I | nvoice D | iscount | System |
| 2 | | | | | |
| 3 | Order Des | cription | Unit Price | Qauntity | Cost |
| 4 | Item 1 | Ball Point Pens | \$0.35 | 100 | \$35.00 |
| 5 | Item 2 | Whiteboard markers | \$2.95 | 2 | \$5.90 |
| 6 | Item 3 | Executive Pens | \$9.95 | 5 | \$49.75 |
| 7 | Item 4 | Executive Gift Sets | \$35.95 | 5 | \$179.75 |
| 8 | | | | | |
| 9 | | | | Subtotal = | \$270.40 |
| 10 | | | | Discount= | -\$27.04 |
| 11 | | | | Total = | \$243.36 |
| 11 | | | | ı otal = | \$243.3 |

If for some reason we decided not to order any Executive Gift Sets (D7=0) then the subtotal does not exceed the \$100.00 threshold and no discount is applied.

| 4 Item 1 Ball Point Pens \$0.35 100 \$35.00 5 Item 2 Whiteboard markers \$2.95 2 \$5.90 6 Item 3 Executive Pens \$9.95 5 \$49.73 7 Item 4 Executive Gift Sets \$35.95 0 \$0.00 8 9 Subtotal = \$90.68 10 Discount = \$0.00 | | А | В | С | D | E |
|--|----|-----------|---------------------|------------|------------|---------|
| 3 Order Description Unit Price Qauntity Cos 4 Item 1 Ball Point Pens \$0.35 100 \$35.00 5 Item 2 Whiteboard markers \$2.95 2 \$5.90 6 Item 3 Executive Pens \$9.95 5 \$49.75 7 Item 4 Executive Gift Sets \$35.95 0 \$0.00 8 9 Subtotal = \$90.68 10 Discount = \$0.00 | 1 | Exampl | e - Automatic II | nvoice D | iscount | System |
| 4 Item 1 Ball Point Pens \$0.35 100 \$35.00 5 Item 2 Whiteboard markers \$2.95 2 \$5.90 6 Item 3 Executive Pens \$9.95 5 \$49.73 7 Item 4 Executive Gift Sets \$35.95 0 \$0.00 8 9 Subtotal = \$90.68 10 Discount = \$0.00 | 2 | | | | | |
| 5 Item 2 Whiteboard markers \$2.95 2 \$5.90 6 Item 3 Executive Pens \$9.95 5 \$49.73 7 Item 4 Executive Gift Sets \$35.95 0 \$0.00 8 9 Subtotal = \$90.63 10 Discount = \$0.00 | 3 | Order Des | cription | Unit Price | Qauntity | Cost |
| 6 Item 3 Executive Pens \$9.95 5 \$49.79 7 Item 4 Executive Gift Sets \$35.95 0 \$0.00 8 9 Subtotal = \$90.69 10 Discount = \$0.00 | 4 | Item 1 | Ball Point Pens | \$0.35 | 100 | \$35.00 |
| 7 Item 4 Executive Gift Sets \$35.95 0 \$0.00 8 9 Subtotal = \$90.60 10 Discount = \$0.00 | 5 | Item 2 | Whiteboard markers | \$2.95 | 2 | \$5.90 |
| 8 Subtotal = \$90.63 10 Discount = \$0.00 | 6 | Item 3 | Executive Pens | \$9.95 | 5 | \$49.75 |
| 9 Subtotal = \$90.69 10 Discount = \$0.00 | 7 | Item 4 | Executive Gift Sets | \$35.95 | 0 | \$0.00 |
| 10 <u>Discount</u> = \$0.00 | 8 | | | | | |
| | 9 | | | | Subtotal = | \$90.65 |
| Total - #00.6 | 10 | | | | Discount= | \$0.00 |
| 11 Total = \$30.00 | 11 | | | | Total = | \$90.65 |

How do I count the cells that only meet my criteria?

COUNTIF Statements

Occasionally you might have a list of items and you want to count how many times certain criterion is met. For example you might want to count how many David's there are in a list of Christian names or count how many purchases exceeded \$100.00.

Scenario - Count how many "fails" occurred in a list of pass/fail exam results

In this example we have a list of students and their pass/fail results of a recent exam as shown below and we want to count how many students passed the exam.

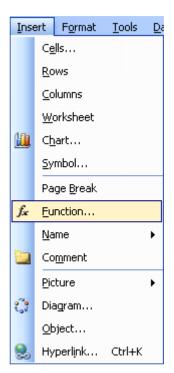
| | A | В | С | D | |
|----|----------------|-------------|---------|--------|---|
| 1 | Example - H | ow many s | tudents | passed | ? |
| 2 | | | | | |
| 3 | Student Name | Exam Result | | | |
| 4 | Mary | FAIL | | | |
| 5 | Patricia | PASS | | | |
| 6 | Linda | PASS | | | |
| 7 | Barbara | FAIL | | | |
| 8 | Elizabeth | FAIL | | | |
| 9 | Jennifer | FAIL | | | |
| 10 | Maria | PASS | | | |
| 11 | Susan | PASS | | | |
| 12 | Margaret | PASS | | | |
| 13 | Dorothy | FAIL | | | |
| 14 | | | | | |
| 15 | Number of PASS | | | | |
| 16 | Number of FAIL | | | | |
| | | | | | |

Step 1: Select the cell we want Excel to return the number of PASS marks in.

Use the mouse to click on Cell B15 to select the cell.

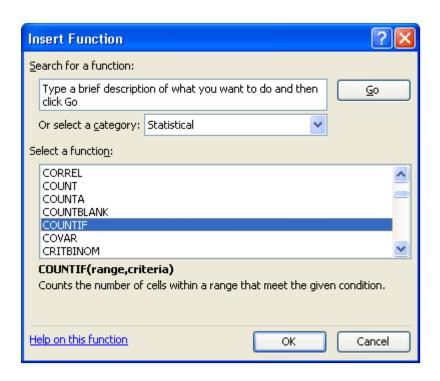
| | А | В | С | D | |
|----|----------------|-------------|---------|--------|---|
| 1 | Example - H | ow many s | tudents | passed | ? |
| 2 | | | | | |
| 3 | Student Name | Exam Result | | | |
| 4 | Mary | FAIL | | | |
| 5 | Patricia | PASS | | | |
| 6 | Linda | PASS | | | |
| 7 | Barbara | FAIL | | | |
| 8 | Elizabeth | FAIL | | | |
| 9 | Jennifer | FAIL | | | |
| 10 | Maria | PASS | | | |
| 11 | Susan | PASS | | | |
| 12 | Margaret | PASS | | | |
| 13 | Dorothy | FAIL | | | |
| 14 | | | | | |
| 15 | Number of PASS | | | | |
| 16 | Number of FAIL | | | | |

Step 2: Select the Paste Function menu item as shown right



Step 3: Select the COUNTIF statement from the Paste Function selection box.

In the Paste Function dialog box, select "Statistical" from the Function Category and "COUNTIF" from the Function Name then press the OK button.



С Е Example - How many students passed? 2 3 Student Name Exam Result FAIL 4 Mary PASS 5 Patricia 6 Linda PASS 7 Barbara FAIL 8 Elizabeth FAIL Jennifer FAIL 10 Maria PASS 11 Susan PASS. 12 Margaret PASS. 13 Dorothy FAIL 14 15 Number of PASS [13,"PASS") 16 Number of FAIL 17 18 **Function Arguments** 19 COUNTIF 20 = {"FAIL";"PASS";"PAS Range B4:B13 21 Criteria "PASS" = "PASS" 22 23 Counts the number of cells within a range that meet the given condition. 24 25 Criteria is the condition in the form of a number, expression, or text that defines 26 which cells will be counted. 27 Formula result = 5 28

Step 4: Enter the required information into the Paste Function helper

<u>Helping Note</u>: You can move the helper box around the screen by click-and-dragging anywhere in the grey area of the box.

Help on this function

29

The "Range" field determines the range of cells Excel will look to perform the count in. We can either use the mouse to select the range or manually type the cell references directly into the text box. In our example the cell range starts at B4 and goes down to B13.

OΚ

Cancel

Helping Note: Cell ranges can be a selection of cells, a column, row or box of cells, or a pre-defined named range. Cell references can be of any type including "relative" (eg B4), "absolute" (eg \$B\$4), mixed reference (eg B\$4), and named.

The "Criteria" is a conditional statement that is similar to the conditional statement in the IF statement. In our case we want to count the number of cells with "PASS" in the identified range. Remember that text fields are a special sort of field and need to start and end with inverted commas.

Press the OK button when you are satisfied that the formula is correct.

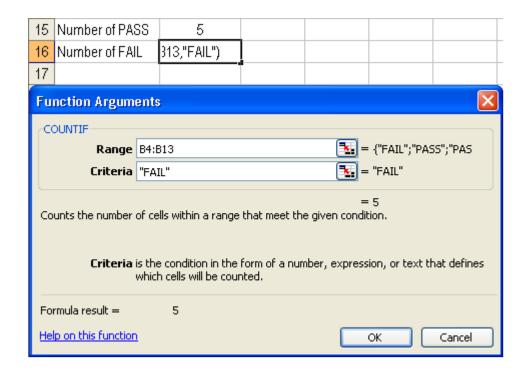
Step 5: Repeat step 4 to count the number of fails.

Select Cell B16.

Use the Paste Formula function and select "Statistical" from the function category list and "COUNTIF" from the function list.

Follow Step 4 above making the Range = B4:B13 and the Criteria = "FAIL".

Press the OK button when you are satisfied that the formula is correct.



Finish: The spreadsheet now counts the number of passes and fails from the list.

The spreadsheet will now look similar to the figure below.

| | А | В | С | D | | | | |
|----|-------------------------------------|-------------|---|---|--|--|--|--|
| 1 | Example - How many students passed? | | | | | | | |
| 2 | | | | | | | | |
| 3 | Student Name | Exam Result | | | | | | |
| 4 | Mary | FAIL | | | | | | |
| 5 | Patricia | PASS | | | | | | |
| 6 | Linda | PASS | | | | | | |
| 7 | Barbara | FAIL | | | | | | |
| 8 | Elizabeth | FAIL | | | | | | |
| 9 | Jennifer | FAIL | | | | | | |
| 10 | Maria | PASS | | | | | | |
| 11 | Susan | PASS | | | | | | |
| 12 | Margaret | PASS | | | | | | |
| 13 | Dorothy | FAIL | | | | | | |
| 14 | | | | | | | | |
| 15 | Number of PASS | 5 | | | | | | |
| 16 | Number of FAIL | 5 | | | | | | |

How do I sum a set of numbers that meet my criteria?

SUMIF Statements

SUMIF is a function that allows you to add together values from a list if a nominated criteria is met. For example, you might want to total the amount of hours worked by full-time employees out of a general list containing full-time, part-time and casual employees.

Scenario - Calculate the winnings from a list of sports bets.

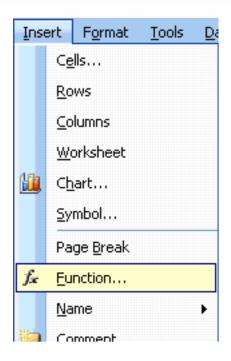
In this example we have a spreadsheet that lists the bets placed on who will win various tennis matches on the weekend (Column A), the amount bet on that match (Column B), the odds of winning (Column C), and the potential winnings (Column D). At the end of the weekend we will enter the results of each match and we want Excel to automatically calculate how much our winnings are.

| | А | | В | С | | D | E | F | |
|----|----------------------------------|----|------|---------|-----|-----------|---|--------------|--|
| 1 | Example - Sports Betting Results | | | | | | | | |
| 2 | | | | | | | | | |
| | Player to Win | Am | ount | Betting | Pot | ential | ľ | Vatch | |
| 3 | | E | 3et | Odds | Wir | nings | F | Result | |
| 4 | Player 1 | \$ | 10 | 4:1 | \$ | 40 | | Won | |
| 5 | Player 2 | \$ | 20 | 4:1 | \$ | 80 | | Won | |
| 6 | Player 3 | \$ | 10 | 6:1 | \$ | 60 | | Won | |
| 7 | Player 4 | \$ | 25 | 4:1 | \$ | 100 | | Won | |
| 8 | Player 5 | \$ | 10 | 10:1 | \$ | 100 | | Lost | |
| 9 | Player 6 | \$ | 5 | 8:1 | \$ | 40 | | Lost | |
| 10 | Player 7 | \$ | 20 | 2:1 | \$ | 40 | | Lost | |
| 11 | Player 8 | \$ | 15 | 8:1 | \$ | 120 | | Lost | |
| 12 | | | | | | | | | |
| 13 | Total Amount Bet = | | | Total | Amo | unt Won : | = | | |

Step 1: Select the cell that will contain the winnings results

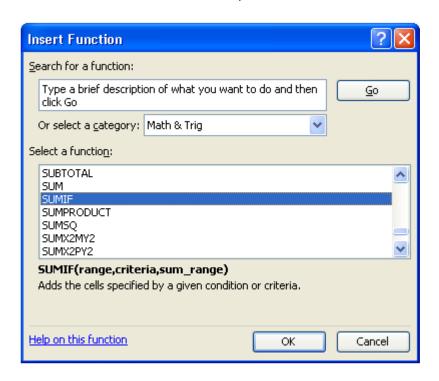
Use the mouse to click on Cell F13 to select the cell.





Step 3: Select the SUMIF statement from the Paste Function selection box.

In the Paste Function dialog box, select "Math & Trig" from the Function Category and "SUMIF" from the Function Name then press the OK button.



Step 4: Enter the required information into the Paste Function helper.

Helping Note: You can move the helper box around the screen by click-anddragging anywhere in the grey area of the box.

The "Range" field determines the range of cells that Excel will examine to assess the criteria. We can either use the mouse to select the range or manually type the cell references directly into the text box. In our example the range starts at cell F4 and goes down to cell F11.

The "Criteria" is a conditional statement that is similar to the conditional statement in the IF statement. In our case we want to select all bets where the tennis player "Won" the match. In our example type in "Won" into the Criteria text

The "Sum_range" field tells Excel which cells to add when the criteria is met for each cell in the range. To put it in another way, we want to add together the potential winnings (Column D) for each match "Won" in Column F. In our example we can either use the mouse to select the range or manually type in D4:D11 into the Sum range text box.

Press the OK button when you are satisfied that the formula is correct.



Step 5: Complete the spreadsheet by summing the amount bet.

Now that we know how much we have won on our better we want to complete the spreadsheet by showing how much money we originally bet.

Step 5a: Select the cell which we want to calculate the total betting amount

Click on Cell B13 as shown below.

| | A | | В | С | | D | E | |
|----|----------------------------------|----|------|---------|-----|---------|-----|--|
| 1 | Example - Sports Betting Results | | | | | | | |
| 2 | | | | | | | | |
| | Player to Win | Am | ount | Betting | Pot | tential | | |
| 3 | | E | 3et | Odds | Wir | nings | | |
| 4 | Player 1 | \$ | 10 | 4:1 | \$ | 40 | | |
| 5 | Player 2 | \$ | 20 | 4:1 | \$ | 80 | | |
| 6 | Player 3 | \$ | 10 | 6:1 | \$ | 60 | | |
| 7 | Player 4 | \$ | 25 | 4:1 | \$ | 100 | | |
| 8 | Player 5 | \$ | 10 | 10:1 | \$ | 100 | | |
| 9 | Player 6 | \$ | 5 | 8:1 | \$ | 40 | | |
| 10 | Player 7 | \$ | 20 | 2:1 | \$ | 40 | | |
| 11 | Player 8 | \$ | 15 | 8:1 | \$ | 120 | | |
| 12 | | | | | | | | |
| 13 | Total Amount Bet = | | | Total | Amo | unt Won | = 5 | |

Step 5b: Click on the AutoSum button

By clicking on the AutoSum button you can get MS-Excel to automatically calculate the column above it. Use this function with caution and be sure to check the range of cells it has automatically selected. Once you have confirmed that the range is accurate then press the Enter key to confirm the formula.

| | , н | | D | U | | ון ט | |
|----|--------------------|-----|--------------------------|---------------------|-----|-----------|---|
| 1 | Example - Sports | Ве | tting l | Results | | | |
| 2 | | | | | | | |
| | Player to Win | An | nount | Betting | Pot | tential | |
| 3 | | | Bet | Odds | Wir | nings | |
| 4 | Player 1 | \$ | 10 | 4:1 | \$ | 40 | |
| 5 | Player 2 | \$ | 20 | 4:1 | \$ | 80 | |
| 6 | Player 3 | \$ | 10 | 6:1 | \$ | 60 | |
| 7 | Player 4 | \$ | 25 | 4:1 | \$ | 100 | |
| 8 | Player 5 | \$ | 10 | 10:1 | \$ | 100 | |
| 9 | Player 6 | \$ | 5 | 8:1 | \$ | 40 | |
| 10 | Player 7 | \$ | 20 | 2:1 | \$ | 40 | 7 |
| 11 | Player 8 | \$ | 15 | 8:1 | \$ | 120 | |
| 12 | | | | | | | |
| 13 | Total Amount Bet = | =Sl | JM(<mark>B4:E</mark> | 3 <mark>12</mark>) | Amo | unt Won = | = |
| 14 | | S | SUM(number1, [number2],) | | | | |

Finish: The spreadsheet now automatically calculates the winnings based on the match results.

The spreadsheet will now look amazingly similar to the figure below.

| | А | | В | С | | D E | F | | | |
|----|----------------------------------|----|------|---------|-----|-----------|--------|--|--|--|
| 1 | Example - Sports Betting Results | | | | | | | | | |
| 2 | | | | | | | | | | |
| | Player to Win | Am | ount | Betting | Pot | tential | Match | | | |
| 3 | | E | Bet | Odds | Wir | nnings | Result | | | |
| 4 | Player 1 | \$ | 10 | 4:1 | \$ | 40 | Won | | | |
| 5 | Player 2 | \$ | 20 | 4:1 | \$ | 80 | Won | | | |
| 6 | Player 3 | \$ | 10 | 6:1 | \$ | 60 | Won | | | |
| 7 | Player 4 | \$ | 25 | 4:1 | \$ | 100 | Won | | | |
| 8 | Player 5 | \$ | 10 | 10:1 | \$ | 100 | Lost | | | |
| 9 | Player 6 | \$ | 5 | 8:1 | \$ | 40 | Lost | | | |
| 10 | Player 7 | \$ | 20 | 2:1 | \$ | 40 | Lost | | | |
| 11 | Player 8 | \$ | 15 | 8:1 | \$ | 120 | Lost | | | |
| 12 | | | | | | | | | | |
| 13 | Total Amount Bet = | \$ | 115 | Total | Amo | unt Won = | \$ 280 | | | |

How do I hide some of my worksheets?

Hiding and Unhiding Worksheets

Sometimes it is useful to hide worksheets from the normal spreadsheet view. Commonly we hide sheets that contain lookup tables, default values and constants that we want in a separate spreadsheet but don't want it to be printed or viewed in normal use.

Scenario - Hiding a worksheet from normal view

Our sample spreadsheet contains a computer parts price list. We may want to have other worksheets to refer to this price list but we don't want the price list open for viewing and printing every time we open our workbook.

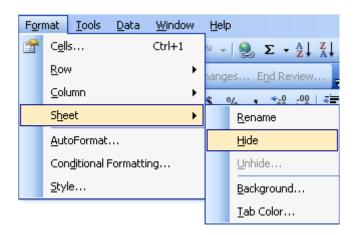
Step 1: Select the worksheet we want to hide from view.

Select the worksheet we want to hide from view by clicking on the worksheet tab located at the bottom of the worksheet.

| | А | В | С | | | | |
|----|------------|---|-----------------|--|--|--|--|
| 1 | Example | Example - Hiding a price list from view | | | | | |
| 2 | | | | | | | |
| 3 | MyHampers | Pty Limited Price List | | | | | |
| 4 | | | | | | | |
| 5 | Reference | Description | Unit Price | | | | |
| 6 | CB1 | Kwacker's Chocolate Box (Small) | \$ 10.00 | | | | |
| 7 | CB2 | Kwacker's Chocolate Box (Medium) | \$ 22.00 | | | | |
| 8 | CB3 | Kwacker's Chocolate Box (Large) | \$ 65.00 | | | | |
| 9 | BD1 | Chocolate Dream Basket | \$ 120.00 | | | | |
| 10 | BD2 | Chocolate Addictions | \$ 67.00 | | | | |
| 11 | BD3 | Supreme Chocoholic's Gift Box | \$ 115.00 | | | | |
| 12 | CH1 | Death By Chess | \$ 52.00 | | | | |
| 13 | CH2 | Bonus Chocolate Gift | \$ 16.00 | | | | |
| 14 | CH3 | Christmas Tower Gift Box | \$ 40.00 | | | | |
| 15 | CH4 | Easter Tower Gift Box | \$ 50.00 | | | | |
| 16 | | | | | | | |
| | ▶ ► H\Hide | │ Worksheet Example | nditional Forma | | | | |

Step 2: Select "Format | Sheet | Hide" from the menu.

Go to the top of the Excel window and click on "Format" and then highlight "Sheet", wait and then click on the "Hide" menu.



Finish: Worksheet is now hidden from normal view.

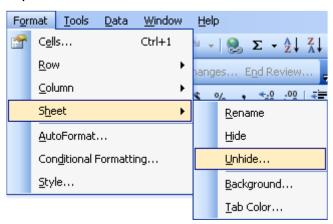
The worksheet is now hidden from view. Any references to this worksheet will still work however the user will not be able to select the worksheet from the tabs at the bottom of the workbook. You will have to "unhide" the worksheet to be able to view and make changes.

Scenario - Unhiding a worksheet for normal view

After we have hidden the worksheet from Normal view we may want to make changes to it. The normal method of doing this is to unhide the spreadsheet and place it back into normal view.

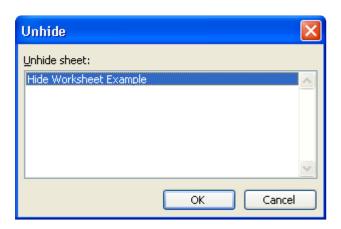
Step 1: Select "Format | Sheet | Unhide" from the menu

Go to the top of the Excel window and click on "Format", then highlight "Sheet", wait and then click on the "Unhide" menu.



Step 2: Select worksheet to unhide.

Select the worksheet name from the Unhide dialog box. In our case we want to select the worksheet named "Hide Worksheet Example".



Press the OK button to unhide the worksheet.

Finish: Worksheet is now visible in the normal view.

The worksheet can now be seen in the normal view and selected using the tabs at the bottom of the workbook.

| | А | В | С |
|------------------------------|-----------|---|-----------------|
| 1 | Example | - Hiding a price list from view | |
| 2 | | | |
| 3 | MyHampers | Pty Limited Price List | |
| 4 | | | |
| 5 | Reference | Description | Unit Price |
| 6 | CB1 | Kwacker's Chocolate Box (Small) | \$ 10.00 |
| 7 | CB2 | Kwacker's Chocolate Box (Medium) | \$ 22.00 |
| 8 | CB3 | Kwacker's Chocolate Box (Large) | \$ 65.00 |
| 9 | BD1 | Chocolate Dream Basket | \$ 120.00 |
| 10 | BD2 | Chocolate Addictions | \$ 67.00 |
| 11 | BD3 | Supreme Chocoholic's Gift Box | \$ 115.00 |
| 12 | CH1 | Death By Chess | \$ 52.00 |
| 13 | CH2 | Bonus Chocolate Gift | \$ 16.00 |
| 14 | CH3 | Christmas Tower Gift Box | \$ 40.00 |
| 15 | CH4 | Easter Tower Gift Box | \$ 50.00 |
| નક 4 4 | ▶ ▶ \Hide | Worksheet Example / Show Formulas / Condition | onal Formatting |

How do I look up answers in another table?

LOOKUP Function

It is often useful to create a spreadsheet where the user simply enters some information and Excel then looks up the required information and returns the result.

Scenario - Determining the exam standard for students

This example has a list of students (Column A) and their exam results (Column B) entered by the user. We then want Excel to look at that result and determine if it is a fail, pass or distinction standard.

| | А | В | С | | | | | |
|----|------------------|---------------------------------|----------|--|--|--|--|--|
| 1 | Example - Lookup | Example - Lookup Exam Standards | | | | | | |
| 2 | | | | | | | | |
| 3 | Student | Result | Standard | | | | | |
| 4 | Paul | 40% | | | | | | |
| 5 | Greg | 40% | | | | | | |
| 6 | Peter | 37% | | | | | | |
| 7 | Sam | 69% | | | | | | |
| 8 | Penelope | 20% | | | | | | |
| 9 | Rima | 83% | | | | | | |
| 10 | Annabelle | 26% | | | | | | |
| 11 | | | | | | | | |

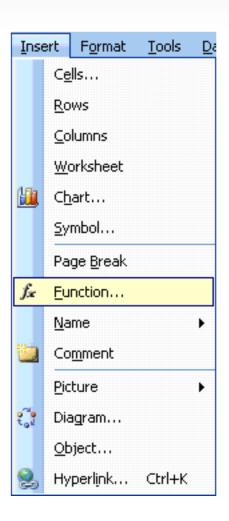
Step 1: Select the Cell you want the result to be in

Use the mouse pointer and click on the cell where you want the result to be shown.

Click on Cell C4.

| | А | В | С | | | | | | |
|----|---------------------------------|--------|----------|--|--|--|--|--|--|
| 1 | Example - Lookup Exam Standards | | | | | | | | |
| 2 | | | | | | | | | |
| 3 | Student | Result | Standard | | | | | | |
| 4 | Paul | 40% | | | | | | | |
| 5 | Greg | 40% | | | | | | | |
| 6 | Peter | 37% | | | | | | | |
| 7 | Sam | 69% | | | | | | | |
| 8 | Penelope | 20% | | | | | | | |
| 9 | Rima | 83% | | | | | | | |
| 10 | Annabelle | 26% | | | | | | | |
| | i e | | | | | | | | |

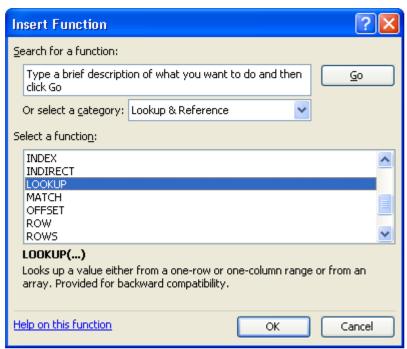
Step 2: Select the Paste Function menu item as shown right



Step 3: Select the LOOKUP statement from the Select a Function selection box

In the Paste
Function dialog
box, select
"Lookup &
Reference" from
the Function
Category and
"LOOKUP" from
the Function Name.

Press the OK button to confirm your selection.



Step 4: Select the desired LOOKUP function from the "Select Arguments" dialog box.

Microsoft Excel will present you with a "Select Arguments" dialog box. This is because the LOOKUP function can be used in different ways. We need to tell Excel how we want to use the LOOKUP function so it can present us with the most useful Paste Function helper for our needs.

In our example we want to select the three-argument helper. Click on "lookup value,lookup vector,result vector" row.



Press the OK button to confirm your selection.

Step 5: Enter the required information into the Paste Function helper.

Helping Note: You can move the helper box around the screen by click-anddragging anywhere in the grey area of the box.

The "Lookup value" determines which cell Excel will look in to determine the search value. We can either use the mouse to select the cell or manually type the cell reference directly into the text box. Note that this is a single cell. In our example we want to use that lines result cell (Cell B4) as the lookup value.

The "Lookup vector" is the range of values that Excel compares the "Lookup value" to. We always start with an "{" bracket, then the lowest number, next number, next number until we reach the minimum value of the highest group, then end the list with a "}" bracket. For our example we enter "{0,0.5,0.75}" into the "Lookup vector" text box.

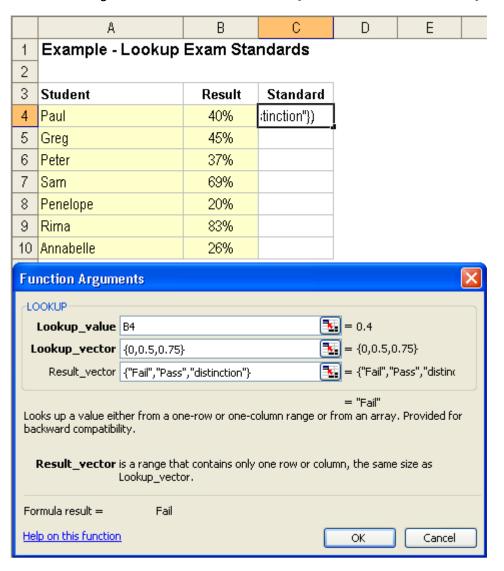
There are a number of rules that the Lookup function uses.

Rule 1: In the cases where the "Lookup value" is smaller than the lowest value in the "Lookup_vector", the result will by "#N/A error".

Rule 2: If an exact match is not made then the result will be the largest value in "Lookup vector" that is less than or equal to the "lookup value".

Helping Note: Microsoft Excel stores percentages as a decimal (0.00) number. Example results of 0% to 100% equate to a decimal range of 0.00 to 1.00.

The "Result_vector" is the range of values that Excel will look at to return the result. If "Lookup_value" is the same as the third item in the "Lookup_vector" list then Excel will return the third item in the "Result_vector" list. For our example, we enter the three grades that will be returned, {"Fail","Pass","Distinction"}.



Press the OK button to confirm your selection.

Step 7: Copy the equation to all the required result cells.

Use the mouse and click on Cell C4 to select the equation we want to copy.

| | А | В | С | | | | | |
|----|---------------------------------|--------|----------|--|--|--|--|--|
| 1 | Example - Lookup Exam Standards | | | | | | | |
| 2 | | | | | | | | |
| 3 | Student | Result | Standard | | | | | |
| 4 | Paul | 3% | Fail | | | | | |
| 5 | Greg | 90% | | | | | | |
| 6 | Peter | 31% | | | | | | |
| 7 | Sam | 19% | | | | | | |
| 8 | Penelope | 25% | | | | | | |
| 9 | Rima | 59% | | | | | | |
| 10 | Annabelle | 52% | | | | | | |

Copy the cell by either

Method 1) pressing Ctrl and C at the same time, or

Method 2) pressing the copy button in the toolbar.

Select the range of cells from C5 to C10. You can do this with the mouse by click-andholding the mouse on cell C5 and the drag-and-release the mouse over cell C10. The screen will look similar to figure to the right.

| | А | В | С | | | | | | |
|----|---------------------------------|--------|-------------|--|--|--|--|--|--|
| 1 | Example - Lookup Exam Standards | | | | | | | | |
| 2 | | | | | | | | | |
| 3 | Student | Result | Standard | | | | | | |
| 4 | Paul | 87% | Distinction | | | | | | |
| 5 | Greg | 58% | | | | | | | |
| 6 | Peter | 91% | | | | | | | |
| 7 | Sam | 60% | | | | | | | |
| 8 | Penelope | 10% | | | | | | | |
| 9 | Rima | 32% | | | | | | | |
| 10 | Annabelle | 36% | | | | | | | |

Now paste the cell information into the highlighted range. You can do this by either

Method 1) pressing Ctrl and V at the same time, or

Method 2) pressing the paste button [18] in the toolbar.



Finish: The standard will be shown as soon as the results are entered by the user.

The spreadsheet will now look similar to the figure below.

| | А | В | С | | | | | | |
|----|---------------------------------|--------|-------------|--|--|--|--|--|--|
| 1 | Example - Lookup Exam Standards | | | | | | | | |
| 2 | | | | | | | | | |
| 3 | Student | Result | Standard | | | | | | |
| 4 | Paul | 40% | Fail | | | | | | |
| 5 | Greg | 45% | Fail | | | | | | |
| 6 | Peter | 37% | Fail | | | | | | |
| 7 | Sam | 69% | Pass | | | | | | |
| 8 | Penelope | 20% | Fail | | | | | | |
| 9 | Rima | 83% | Distinction | | | | | | |
| 10 | Annabelle | 26% | Fail | | | | | | |

How do I freeze headings so I don't lose them when I scroll around?

Freeze Panes

MS-Excel is a useful tool for presenting data on a page. There comes a point where the data being presented does fit on the screen and we have to scroll down and across to see the information. If you scroll down enough then it becomes difficult to know what headings relate to each column. The same applies to row headings when we scroll right. The way to go about this is to tell MS-Excel to freeze the headings so that when you scroll off the page you can still see the headings. This is called "Freeze Pane".

Scenario - Formatting a large table to make it easy to read

You may have a large timesheet system that lists the people involved in a project down the left-hand side and the hours worked across the page. We want to format the page so that the user can scroll left and right, as well as up and down and still see the weeks headings and the team members name.

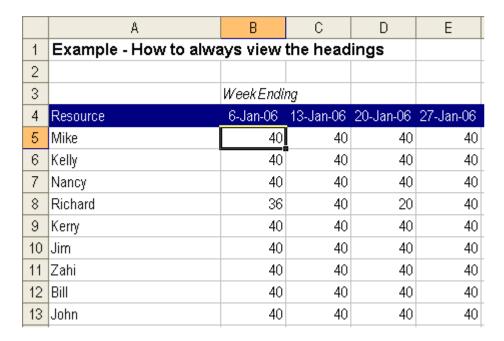
The figure below shows the spreadsheet in a normal format. With this default view, the use would not be able to scroll right and still see the resource name connected to each week.

| ■ Microsoft Excel - Examples.xls | | | | | | | | | × |
|--|--|-------------------|--------------------------|-------------------|-----------|----------|----------------|-----------|---|
| : | <u>File Edit View Insert For</u> | mat <u>T</u> ools | <u>D</u> ata <u>W</u> ir | ndow <u>H</u> elp | | Type a q | uestion for he | lp 🕶 🗕 🗗 | × |
| □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ | | | | | | | | | |
| | 🛅 🛅 🗃 🐼 🧑 🦄 🚿 💍 💆 🖟 🖟 ₩ Reply with Changes End Review | | | | | | | | |
| Ari | Arial Narrow 11 B I U 巨 雪 国 \$ % , **** **** 章 章 田 - 🏖 - A - | | | | | | | | |
| | E43 ▼ f₂ 40 | <u> </u> | | | | | | | |
| | А | В | С | D | Е | F | G | Н | ^ |
| 1 | Example - How to alwa | ays view | the head | ings | | | | | |
| 2 | | | | | | | | | |
| 3 | | WeekEndii | ng | | | | | | |
| 4 | Resource | 6-Jan-06 | 13-Jan-06 | 20-Jan-06 | 27-Jan-06 | 3-Feb-06 | 10-Feb-06 | 17-Feb-06 | 2 |
| 5 | Mike | 40 | 40 | 40 | 40 | 40 | 40 | 40 | |
| 6 | Kelly | 40 | 40 | 40 | 40 | 40 | 40 | 40 | |
| 7 | Nancy | 40 | 40 | 40 | 40 | 40 | 40 | 40 | |
| 8 | Richard | 36 | 40 | 20 | 40 | 40 | 20 | 40 | |
| 9 | Kerry | 40 | 40 | 40 | 40 | 40 | 40 | 40 | |
| 10 | Jim | 40 | 40 | 40 | 40 | 40 | 40 | 40 | |
| 11 | Zahi | 40 | 40 | 40 | 40 | 40 | 40 | 40 | |
| 12 | Bill | 40 | 40 | 40 | 40 | 40 | 40 | 40 | |
| 13 | .lohn | 40 | 40 | 40 | 40 | 40 | 40 | 40 | |

Step 1: Select the first cell which contains data

For the freeze pane function to work, you need to tell MS-Excel what is a heading and what is data. To do this you must select the very first cell which contains data in it. Excel assumes that everything above and to the left of it is a heading for the table.

Click on Cell B5 as shown below.



Step 2: Select "Window | Freeze Panes" menu item from the menu



Finish: The Worksheet will now have black lines signifying the location of the heading

The row and column headings are now frozen. This allows the user to scroll all the way to the right and all the way down the bottom of the table and be still able to view the resource names and weeks worked.

| | A | L | M | N | 0 | Р | Q | R |
|----|-----------------------|-----------|-----------|-----------|----------|-----------|-----------|-----------|
| 1 | Example - How to alwa | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | Resource | 17-Mar-06 | 24-Mar-06 | 31-Mar-06 | 7-Apr-06 | 14-Apr-06 | 21-Apr-06 | 28-Apr-06 |
| 10 | Jim | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| 11 | Zahi | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| 12 | Bill | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| 13 | John | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| 14 | Ma | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| 15 | Jim | 40 | 40 | 10 | 40 | 40 | 40 | 40 |
| 16 | Steven | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| 17 | Jacques | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| 18 | Andrew | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| 19 | Jimmy | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| 20 | Geoffrey | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| 21 | Muqtada | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| 22 | Ellen | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| 23 | Hugo | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| 24 | George | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| | | | | | | | | |

<u>Helping Note</u>: If you want to unfreeze the columns and row headings then go to "Window | UnFreeze Panes". This will take the table back to its default state.

Helping Note: You can freeze just the top rows by selecting the first row with data in it and then using the freeze function. This method does not freeze and columns. The same principle can be used to freeze columns but not rows.

How do I make my Worksheet tabs colourful?

Adding Colour to Worksheets

It is often nice to add a touch of colour to your worksheets. As a new function to MS-Excel 2003, you are now able to easily colour individual worksheet tabs. For example, you may want to colour a summary worksheet blue to highlight its importance to the user.

Scenario - Creating excitement on a blank worksheet

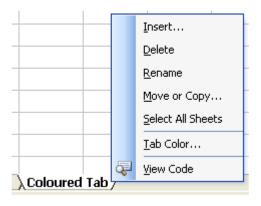
Our sample spreadsheet has a blank worksheet with a dull gray tab. In this example we will change the colour from gray to a more exciting colour.

Step 1: Select the worksheet tab we want to change the colour of

Select the worksheet tab we want to change the colour of by clicking on the worksheet tab located at the bottom of the worksheet.

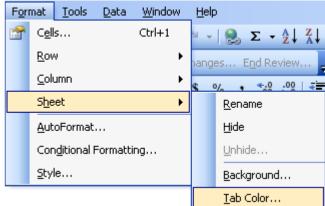


Step 2: Select the change Tab Colour dialog box



Method 1: Right-Click on the worksheet tab we want to change the colour of, as shown below.

Method 2: Select "Format | Sheet | Tab Color..." from the menu



Step 3: Select the colour on the colour palette chart

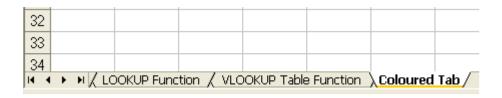
Select the colour you want to change the worksheet tab to on the Format Tab Color dialog box (shown below). In this example, we want the tab to be gold in colour.



Finish: The Worksheet tab is now the coloured

Coloured worksheet tabs look different depending on their selection state. These two "looks" are shown below.

Selected Worksheet Tab View:



Background Worksheet Tab View:

