Functions

Function in mathematics is a relationship between the input and the output of a problem. The number you put is directly related to the number you will get.

MaxCount includes a series of simple math functions. The Formula Bar feature is located on the Home tab.

When you click the *fx* **Formula Bar** button, the Formula Bar will be displayed.

The Formula Bar is useful when working in MaxCount to see the mathematical formula of the different functions.

Click the Features tab to see the *fx* **Functions** button and its features will be displayed.
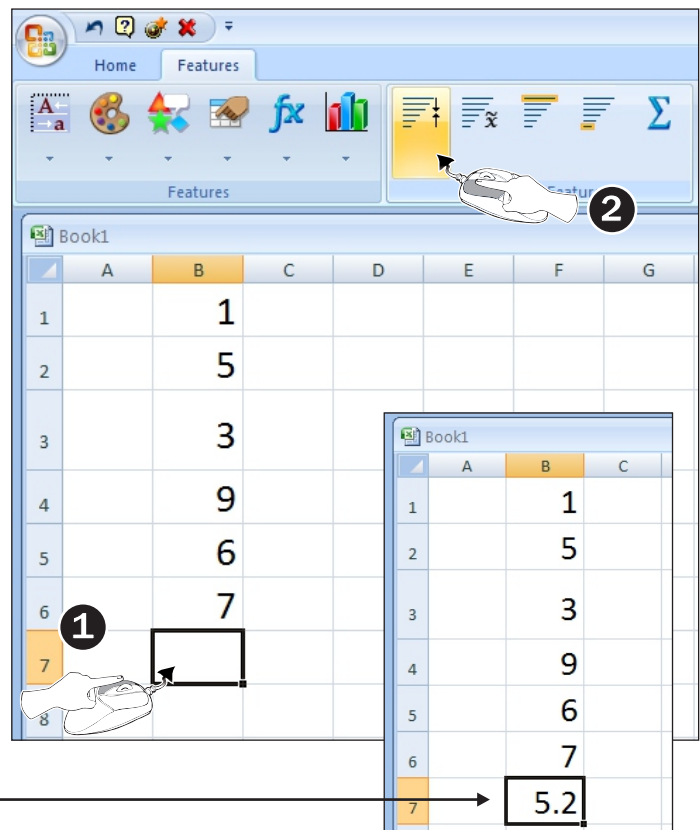
Average function

The Average function calculates the average (arithmetic mean) of the values in a set of cells.

For example, when you have a list of numbers, and you want to find out the average value of all the numbers.

To calculate the average value:

1. Select the empty cell at the bottom of your list of numbers.

2. Click the **Average** button.

    In this example, the average "**5.2**" is automatically entered into cell B7.

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Median function

The Median function calculates the median of the values in a set of cells. The median is the number in the middle of a set of numbers; that is, half the numbers have values that are greater than the median and half the values are less. Furthermore, when there is an even number of values, the median is the average (mean) of the two middle numbers.

To calculate the median value:

1. Select the empty cell at the bottom of your list of numbers.

2. Click the **Median** button. In this example, the answer "**5.5**" is automatically entered into cell B7.
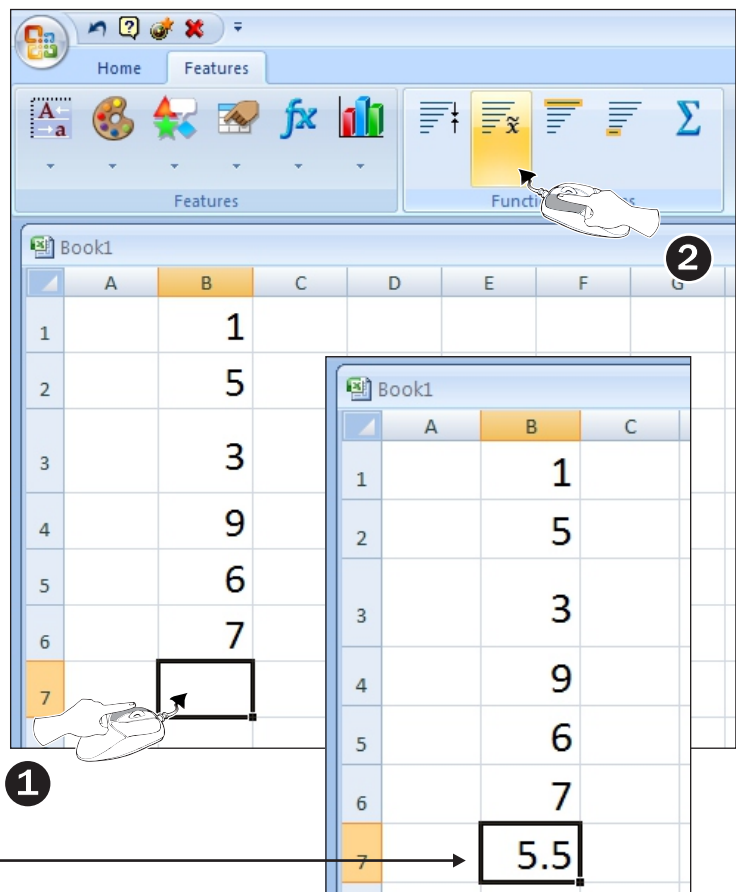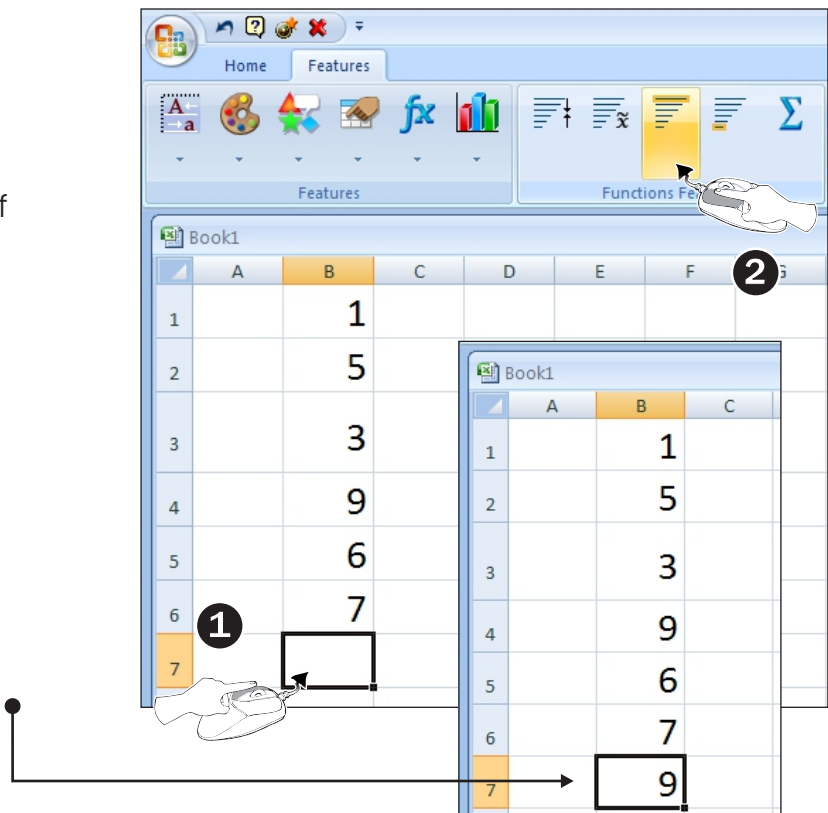

Maximum function

The Maximum function returns the largest value in a set of cells. For example, when you have a list of numbers and you want to find the largest value of all the numbers in the list.

To calculate the maximum value:

1. Select the empty cell at the bottom of your list of numbers.

2. Click the **Maximum** button. In this example, the answer "**9**" is automatically entered into cell B7.

Minimum function

The Minimum function returns the smallest value in a set of cells.
For example, when you have a list of numbers, and you want to find the smallest value of all the numbers in the list.

To calculate the minimum value:

1. Select the empty cell at the bottom of your list of numbers.

2. Click the **Minimum** button.

   In this example, the answer "**1**" is automatically entered into cell B7.
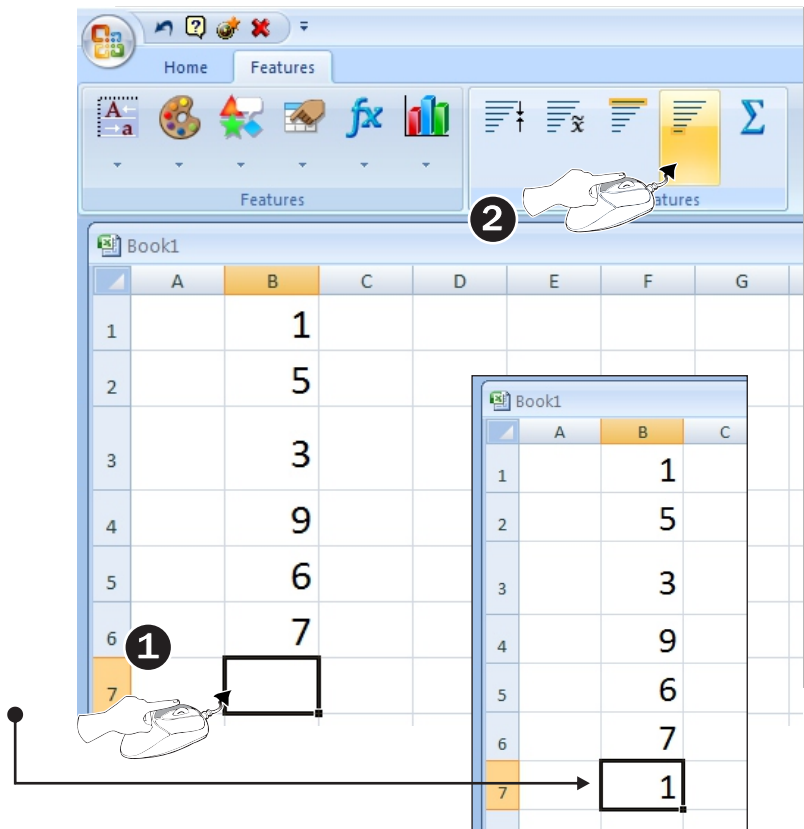
Sum function

The Sum function adds all the numbers in a range of cells.
For example, when you have a list of numbers, and you want to find the total of all the numbers.

To calculate the sum:

1. Select the empty cell at the bottom of your list of numbers.

2. Click the **Sum** button.

   In this example, the answer "**31**" is automatically entered into cell B7.
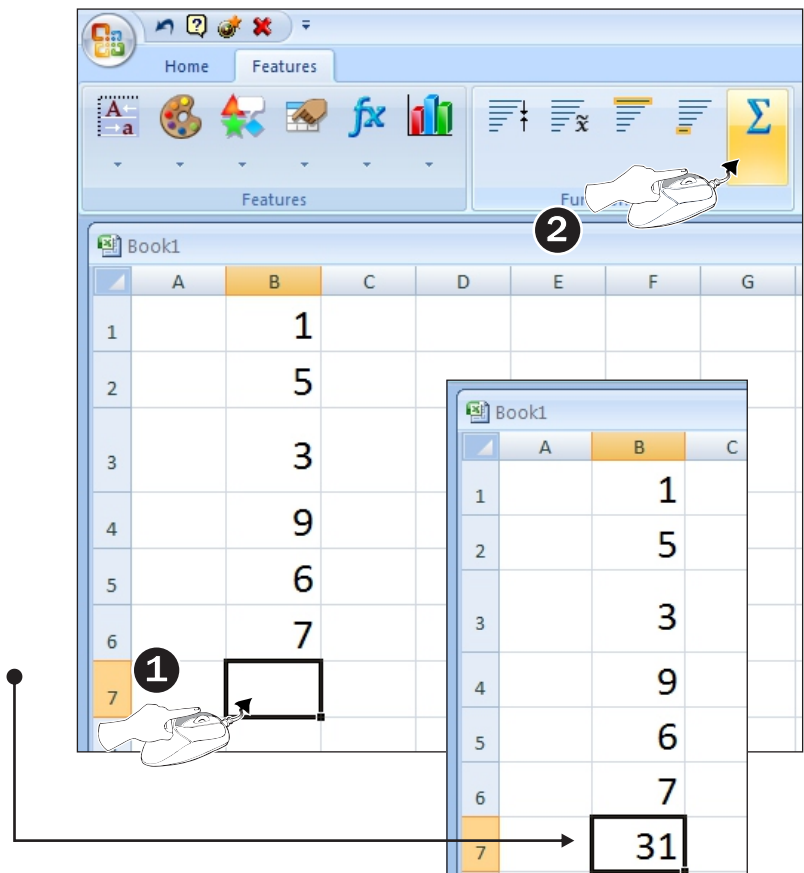
Find The Average

Lesson**25**

Activity 76

Score

Directions:

1. Launch MaxCount.
2. Open and answer Lesson 25 Activity 76 **Find the Average**.
3. Find the average of the following data using MaxCount and answer the questions below the table.

To find the average in a row, choose or highlight all the numbers that you want to find the average and click the Average button.

Preview:

4. Save the activity as **Find the Average**.

Find The Median

Score

Activity 77

Directions:

1. Launch MaxCount.
2. Open and answer Lesson 25 Activity 77 **Find the Median**.
3. Find the Median of the following data and answer the following questions below.

   To find the median in a row, choose or highlight all the numbers that you want to find the Median and click the Median button.

Preview:

FIND THE MEDIAN								
	A	B	C	D	E	F	G	H
1	Finding the Median							
2	Sales Table of BEN'S FRUITSTAND							
3	1st week	Days Sold						
4	fruits sold	Monday	Tuesday	Wednesday	Thursday	Friday	MEDIAN:	
5	lansones	967	954	784	787	567		
6	apple	867	747	475	856	987		
7	mango	784	568	565	585	832		
8	guava	351	544	856	677	762		
9	grapes	467	567	456	769	228		
10	orange	356	456	574	825	542		
11	banana	465	787	967	745	675		
12	durian	856	667	586	782	542		
13	jackfruit	875	476	786	787	343		
14	MEDIAN:							
15								

4. Save the activity as **Find the Average**.

Max and Mini

Score

Activity 78

Directions:

1. Launch MaxCount.
2. Open and answer Lesson 25 Activity 78 **Max and Mini**.
3. Find the Maximum and Minimum Value of the given data and answer the questions below.

   To find the maximum and minimum value of the given data, choose or highlight all the numbers in a row that you want to find the Maximum or Minimum Value and click the Maximum or Minimum button.

Preview:

max and mini							
	A	B	C	D	E	F	G
1		Find the Maximum and Minimum Value					
2		Date of Payment					
3	Debtors:	January	February	March	April	May	Minimum:
4	debtor 1	2354	577	8554	4562	566	
5	debtor 2	523	764	7456	555	636	
6	debtor 3	345	4124	3636	1444	663	
7	debtor 4	4567	664	3636	5314	344	
8	debtor 5	897	643	3356	7452	636	
9	debtor 6	355	345	6767	3575	753	
10	debtor 7	632	643	8965	3512	856	
11	Maximum:						
13							
14	1. Who's Debtor has a Maximum payment in 5 months?						
15	Answer:						
16	2. What Month has a Minimum payment?						

4. Save the activity as **Max and Mini**.

Find The Sum

Score

Activity 79

Directions:

1. Launch MaxCount.
2. Open and answer Lesson 25 Activity 79 **Find the Sum**.
3. Find the sum or the total enrollment of the data given below.
4. After getting the sum of the total enrollment, answer the questions below the table.

To get the sum of the number in rows, choose or highlight all the numbers that you want to add and click the Sum button.

Preview:

Find the sum						
	A	B	C	D	E	F	G
1	KASARIAN ELEMENTARY SCHOOL					
2	Enrolment SY: 2010-2011					
3		Section A	Section B	Section C	Section D	Total Enrolees:
4	Grade 1:	65	63	64	60	
5	Grade 2:	60	65	64	61	
6	Grade 3:	59	51	54	58	
7	Grade 4:	55	53	56	54	
8	Grade 5:	52	50	53	52	
9	Grade 6:	48	50	47	49	
10	Total:					
11						
12	1. How many Enrolees are there in all in Section A?					
13	Answer:					
14	2. How many Enrolees are there in all in Grade 2?					
15	Answer:					

5. Save the activity as **Find the Sum**.

Charts
Lesson Extension

To create a chart:

1. Launch MaxCount.

2. Enter information into your worksheet where you will create a chart.

3. Next, select the cells, which contain the data that you want to include in your chart.

4. Click on the ☐ Insert chart button.

5. Select the type of chart you wish to make.

6. Click on the ⭕ Chart labels button.

7. Enter the chart Title as well as the y Axis and x Axis labels.

   Example:
   > Title : Fruits
   > category (x) Axis : Name
   > value (y) Axis : Number

8. Select whether you wish to graph the data by rows or columns.

9. Click on the ⭕ Chart Options button.

10. Choose whether to Show a Legend, Data Value, Data table, or Gridlines by turning the check boxes on or off.

11. Choose whether to Audio-generate Scale or Scale increment 1.

12. Click OK to show the table on the spreadsheet.

Charts
Lesson Extension
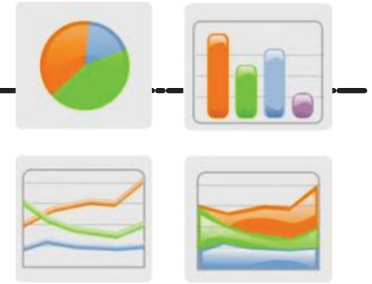
To format data points:

Format Data Points unable you to change the color of your chart data or add a picture to your chart.

1. Select your chart by clicking on it.

2. Click on the ☐ Format Data Point button. The Format Individual Data Points dialog box appears.

3. You can choose to change the color of the data point by clicking on a Data Label button, then by clicking on the ○ Choose Color button.

4. Alternatively, you can click on the ○ Add Picture Browse button and select a picture from the Clipart Gallery.

5. Click on the ✓ OK button to apply the changes.

Chart It Out

Score

Activity 80

Directions:

1. Launch MaxCount.
2. Research the 2007 Population of the following countries in the worksheet and enter it in the next column. Use Encarta Kids or Microsoft Student for your research.
3. Perform the following:
   a. Insert a chart.
   b. Choose the column 3D.
   c. Key in on the chart labels; (2007) Population on the title, Country on the (x) Axis and Total population in the (y) axis.
   d. Click the Chart options and choose Show Legend and Audio-Generate Scale.
   e. Click OK to show the table in the worksheet.
4. Save the activity as **Chart it out**.

Preview:
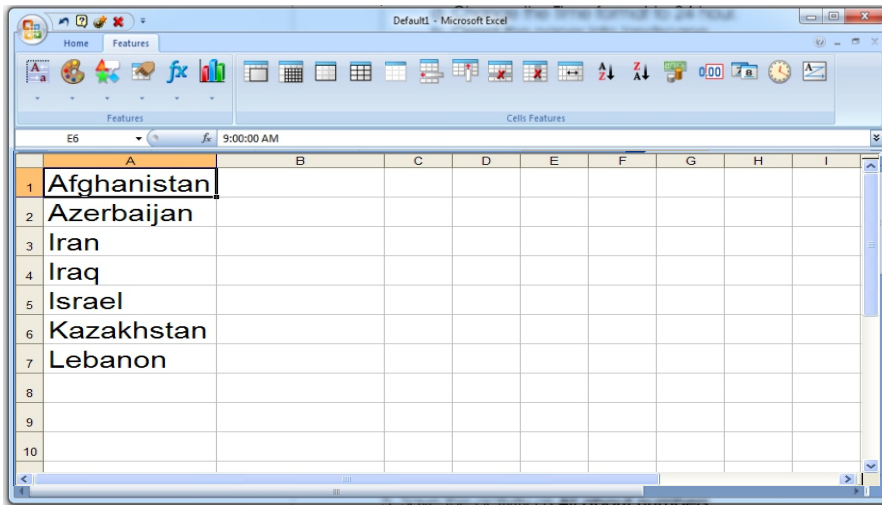
Color Legend

Lesson Extension

Activity 81

Score

Directions:
1. Launch MaxCount.
2. Open and perform Lesson Extension Activity **80 Chart It Out**.
3. Follow the steps on how to format data points.
4. Change the color of the following countries:

Afghanistan   - green
Azerbaijan   - yellow
Iran   - blue
Iraq   - red
Israel   - brown
Kazakhstan   - black
Lebanon   - orange

If the names of other countries are not visible, double click any of the visible countries and choose the alignment and set the orientation up to 90%.

Preview:

5. Save the activity as **Color Legend**.