



Republic of the Philippines
Department of Education
REGION III
SCHOOLS DIVISION OFFICE OF NUEVA ECija

LEARNING ACTIVITY SHEET
SPECIAL PROGRAM IN ICT 7
OFFICE PRODUCTIVITY
Third Quarter, Week 8

Name of Learner: _____

Grade Level /Section: _____ Date: _____

FUNCTIONS

BACKGROUND INFORMATION FOR LEARNERS

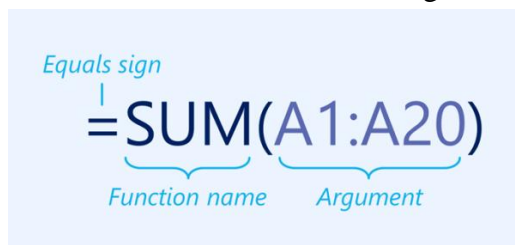
To unlock the power of Excel, you need to use formulas and functions. These calculation tools help you bring information to the surface and make better decisions. Formulas and Functions shows beginner-level users how to summarize and analyze data with these powerful data analysis features.

INTRODUCTION

A **function** are the ready-made formulas that perform a series of operations on a specific range of values. Excel includes many common functions that can be used to quickly find the **sum**, **average**, **count**, **maximum value**, and **minimum value** for a range of cells. In order to use functions correctly, you'll need to understand the different **parts of a function** and how to create **arguments** to calculate values and cell references.

The Parts of a Function

In order to work correctly, a function must be written a specific way, which is called the **syntax**. The basic syntax for a function is the **equals sign** (=) indicates that what follows is a function (formula), the **function name** indicates the operation that will be performed (example SUM, AVERAGE, COUNT, MIN, MAX), and one or more **arguments**. Arguments contain the information you want to calculate. The function in the example below would add the values of the cell range A1:A20.



Working with arguments

Arguments can refer to both **individual cells** and **cell ranges** and must be enclosed within **parentheses**. You can include one argument or multiple arguments, depending on the syntax required for the function.



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For example, the function **=AVERAGE(B1:B9)** would calculate the **average** of the values in the cell range B1:B9. This function contains only one argument.

	A	B	C	D	E
1		1			
2		4			
3		5			
4		6			
5		8			
6		2			
7		3			
8		5			
9		6			
10		=AVERAGE(B1:B9)			
11					

Multiple arguments must be separated by a **comma**. For example, the function **=SUM(A1:A3, C1:C2, E1)** will **add** the values of all of the cells in the three arguments.

	A	B	C	D	E	F
1	4		6		20	
2	8		10			
3	12					
4						
5	=SUM(A1:A3,C1:C2,E1)					
6						

Creating a Function

There are a variety of functions available in Excel. Here are some of the most common functions you'll use:

1. **SUM**: This function **adds** all of the values of the cells in the argument. To insert the SUM function, you can type the function manually.

The SUM function setup (syntax) is: **SUM(number1, [number2],...)**.

- It has one required argument: **number1**
- It also has optional arguments (enclosed in square brackets): [number2],...

These arguments can be cell references, or can be typed into the formula.

In the example below (**=SUM(J7:M7)**), there is one argument -- a reference to cells A1:A4.

1. Place your cursor in cell N7.

	A	B	J	K	L	M	N	U
4	LEARNER'S NAME		MAPEH					
5			MUSIC	ARTS	P.E.	HEALTH	Total	FINAL
6	MALE							
7	1	AGARAN,KIM JUSTINE, SEQUERA	80	80	80	79	319	
8	2	AGUADO,ALFREDO, BALIGOD	79	80	79	80	318	
9	3	ALLAS,KIRBY BLUE, AUSTRIA	80	81	82	80	323	
10	4	ALMAZAN,JOHN PAUL, CABELLO	80	79	79	80	318	
11	5	AMBAS,EDRENE, RAMOS	80	80	82	80	322	

2. Look at the formula bar to view the formula contained within the cell M7:J7.

Formula bar

The formula bar within Microsoft Excel allows the user to view or display the contents of the active cell. The formula bar can be used to manually enter a formula into a cell, edit an existing formula or function and view a formula or function. It is important to remember that the values you see displayed in a cell can be information that has been manually typed or can be the result of a formula or function which is active within a cell. If you want to see where the a is coming from, select the cell and check the formula bar.

2. AVERAGE: This function determines the **average** of the values included in the argument. It calculates the sum of the cells and then divides that value by the number of cells in the argument.

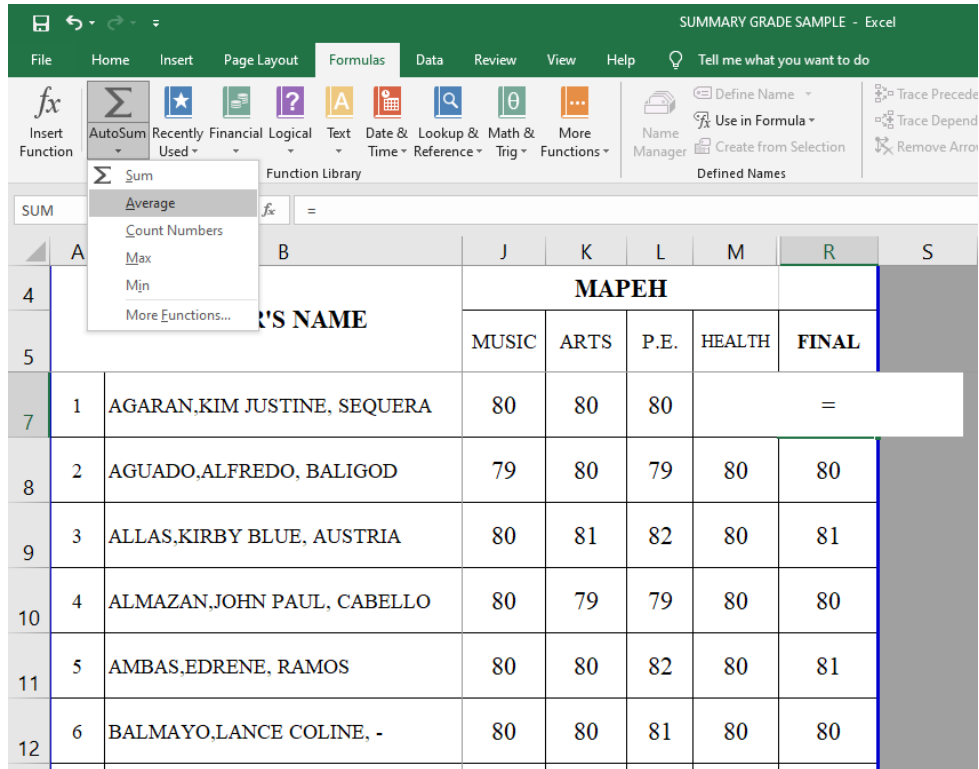
1. Place your cursor in cell **N7**.
2. Type the = sign followed by the AVERAGE function.
=AVERAGE
3. Type the open parenthesis.
=AVERAGE(
4. Place your cursor in cell J7 and drag unto M7.

IF		=AVERAGE(J7:M7)							
	A	B	J	K	L	M	T	U	V
4	LEARNER'S NAME		MAPEH						
5			MUSIC	ARTS	P.E.	HEALTH	FINAL		
6	MALE								
7	1	AGARAN,KIM JUSTINE, SEQUERA	80	80	80	79	=AVERAGE(J7:M7		
8	2	AGUADO,ALFREDO, BALIGOD	79	80	79	80	AVERAGE(number1, [number2], ...)		
9	3	ALLAS,KIRBY BLUE, AUSTRIA	80	81	82	80			
10	4	ALMAZAN,JOHN PAUL, CABELLO	80	79	79	80			
11	5	AMBAS,EDRENE, RAMOS	80	80	82	80			

5. Now you can press the **Enter** key on the keyboard

R7		: ✕ ✓ fx =AVERAGE(J7:M7)					
	A	B	J	K	L	M	R
4	LEARNER'S NAME		MAPEH				
5			MUSIC	ARTS	P.E.	HEALTH	FINAL
7	1	AGARAN,KIM JUSTINE, SEQUERA	80	80	80	79	80
8	2	AGUADO,ALFREDO, BALIGOD	79	80	79	80	80
9	3	ALLAS,KIRBY BLUE, AUSTRIA	80	81	82	80	81
10	4	ALMAZAN,JOHN PAUL, CABELLO	80	79	79	80	80
11	5	AMBAS,EDRENE, RAMOS	80	80	82	80	81
12	6	BALMAYO,LANCE COLINE, -	80	80	81	80	80

6. You can use the Average function found in Formula Tab.



7. Click the **AVERAGE** function click and drag the arguments from **J7:M7** and press **enter**.

3. **COUNT**: This function **counts** the number of cells with numerical data in the argument. This function is useful for quickly counting items in a cell range.

1. In B19 type the **=COUNT** and the open parenthesis (. Place the cursor in B5 drag in to B18 type the close parenthesis then **enter**.

B19							
	A	B	C	D	E	F	G
1							
2							
3							
4	STUDENTS	GHOST WARRIOR	DRAGON X	DUNK THE BALL	VOLTS	BOX OUT	HUNTER
5	A	1	1	1	1	1	1
6	B	1		1	1	1	1
7	C	1		1	1	1	1
8	D	1	1	1	1	1	1
9	E	1	1	1	1	1	1
10	F		1	1	1	1	
11	G	1		1	1	1	1
12	H		1	1	1	1	1
13	I	1	1		1	1	
14	J		1	1	1	1	1
15	K	1	1	1	1		1
16	L	1		1		1	
17	M	1	1		1	1	1
18	O	1	1	1	1	1	1
19	TOTAL	=COUNT(B5:B18)					

4. **MAX**: This function determines the **highest cell value** included in the argument.

The MAX function is used when trying to determine the maximum or highest value from a range of cells or values.


- | | A | B | C | D | E | F | G | H | I | J | K |
|----|--|---------------|----------|---------------|-------|---------|--------|---|---|---|---|
| 1 | Summary of My Survey | | | | | | | | | | |
| 2 | Favorite Anime of Second Year Students | | | | | | | | | | |
| 3 | | | | | | | | | | | |
| 4 | STUDENTS | GHOST WARRIOR | DRAGON X | DUNK THE BALL | VOLTS | BOX OUT | HUNTER | | | | |
| 5 | A | 1 | 1 | 1 | 1 | 1 | 1 | | | | |
| 6 | B | 1 | | 1 | 1 | 1 | 1 | | | | |
| 7 | C | 1 | | 1 | 1 | 1 | 1 | | | | |
| 8 | D | 1 | 1 | 1 | 1 | 1 | 1 | | | | |
| 9 | E | 1 | 1 | 1 | 1 | 1 | 1 | | | | |
| 10 | F | | 1 | 1 | 1 | 1 | | | | | |
| 11 | G | 1 | | 1 | 1 | 1 | 1 | | | | |
| 12 | H | | 1 | 1 | 1 | 1 | 1 | | | | |
| 13 | I | 1 | 1 | | 1 | 1 | | | | | |
| 14 | J | | 1 | 1 | 1 | 1 | 1 | | | | |
| 15 | K | 1 | 1 | 1 | 1 | | 1 | | | | |
| 16 | L | 1 | | 1 | | 1 | | | | | |
| 17 | M | 1 | 1 | | 1 | 1 | 1 | | | | |
| 18 | O | 1 | 1 | 1 | 1 | 1 | 1 | | | | |
| 19 | TOTAL | 11 | 10 | 12 | 13 | 13 | 11 | | | | |
- Most Favorite Anime:

Voters: =MAX(B19:G19)

Anime Title: MAX(number1, [number2], ...)
- Least Favorite Anime:


Votes:

Anime Title:

- The screenshot shows the 'AutoSum' dropdown menu in the Excel ribbon. The 'Max' option is highlighted with a red box.

The MIN function is useful for: determining the lowest cost of an item; the lowest quantity; lowest percentage or dollar amount.

- | | A | B | C | D | E | F | G | H | I | J |
|----|--|---------------|----------|---------------|-------|---------|--------|-----------------------|---------------|---|
| 1 | Summary of My Survey | | | | | | | | | |
| 2 | Favorite Anime of Second Year Students | | | | | | | | | |
| 3 | | | | | | | | | | |
| 4 | STUDENTS | GHOST WARRIOR | DRAGON X | DUNK THE BALL | VOLTS | BOX OUT | HUNTER | | | |
| 5 | A | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 6 | B | 1 | | 1 | 1 | 1 | 1 | | | |
| 7 | C | 1 | | 1 | 1 | 1 | 1 | Most Favorite Anime: | | |
| 8 | D | 1 | 1 | 1 | 1 | 1 | 1 | Voters: | 13 | |
| 9 | E | 1 | 1 | 1 | 1 | 1 | 1 | Anime Title: | | |
| 10 | F | | 1 | 1 | 1 | 1 | | | | |
| 11 | G | 1 | | 1 | 1 | 1 | 1 | | | |
| 12 | H | | 1 | 1 | 1 | 1 | 1 | Least Favorite Anime: | | |
| 13 | I | 1 | 1 | | 1 | 1 | | Votes: | =MIN(B19:G19) | |
| 14 | J | | 1 | 1 | 1 | 1 | 1 | Anime Title: | | |
| 15 | K | 1 | 1 | 1 | 1 | | 1 | | | |
| 16 | L | 1 | | 1 | | 1 | | | | |
| 17 | M | 1 | 1 | | 1 | 1 | 1 | | | |
| 18 | O | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 19 | TOTAL | 11 | 10 | 12 | 13 | 13 | 11 | | | |

- The screenshot shows the 'AutoSum' dropdown menu. The options are: Sum, Average, Count Numbers, Max, Min (highlighted with a red box), and More Functions... The 'Min' option is the correct choice for finding the minimum value.

K16									
	A	B	C	D	E	F	G	H	I
1		Summary of My Survey							
2		Favorite Anime of Second Year Students							
3									
4	STUDENTS	GHOST WARRIOR	DRAGON X	DUNK THE BALL	VOLTS	BOX OUT	HUNTER		
5	A	1	1	1	1	1	1		
6	B	1		1	1	1	1		
7	C	1		1	1	1	1	Most Favorite Anime:	
8	D	1	1	1	1	1	1	Voters:	13
9	E	1	1	1	1	1	1	Anime Title:	
10	F		1	1	1	1			
11	G	1		1	1	1	1		
12	H		1	1	1	1	1	Least Favorite Anime:	
13	I	1	1		1	1		Voters:	10
14	J		1	1	1	1	1	Anime Title:	
15	K	1	1	1	1		1		
16	L	1		1		1			
17	M	1	1		1	1	1		
18	O	1	1	1	1	1	1		
19	TOTAL	11	10	12	13	13	11		

SORT DATA IN AN EXCEL WORKSHEET

When sorting information in a worksheet, you can rearrange the data to find values quickly. You can sort a range or table of data on one or more columns of data. For example, you can sort students—first by section, and then by last name.

How to sort in Excel?

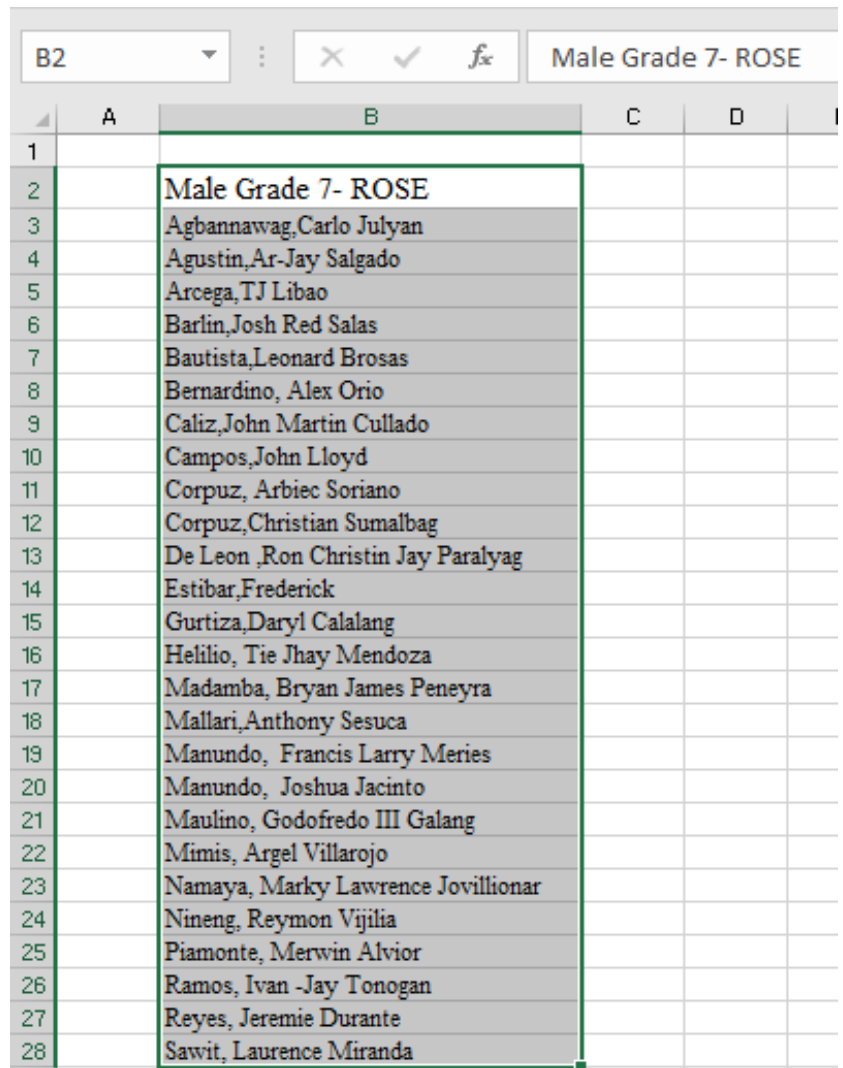
1. Select the data to sort

A7		LEARNER'S NAME																
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	R	S		
4		REGION	III															
5		SCHOOL NAME	GENERAL LUNA NATIONAL HIGH SCHOOL					SCHOOL YEAR		2019-2020								
6		SECOND QUARTER	GRADE AND SECTION: GRADE 7- ROSE					TEACHER: MARIE E. FONTANILLA										
7		LEARNER'S NAME	FILIPINO	ENGLISH	MATH	SCIENCE	AP	ESP	T.L.E	MAPEH								
8										MUSIC	ARTS	P.E.	HEALTH	FINAL	TOTAL	FINAL GRADE		
9	1	ABOY,RAYSALYN, JAGON	80	77	79	81	84	78	84	72	72	72	72	72	635	79		
10	2	BANIQUED,DESIREE, ALMAZAN	87	82	81	84	86	79	84	80	80	80	80	80	663	83		
11	3	CALIZ,MARNELLA, VALDEZ	80	83	77	87	81	82	80	81	82	81	81	81	651	81		
12	4	CORPUZ,CATHERINE, SUMALBAG	88	87	82	86	90	82	89	82	84	84	84	84	688	86		
13	5	DELA CRUZ,ANALYN, CASTILLO	87	80	84	84	80	85	87	83	76	78	83	80	667	83		
14	6	FERNANDEZ, PRINCESS MARVI	88	87	80	86	85	83	88	87	80	82	87	84	681	85		
15	7	HELILIO,ARHIANE JOY, MENDOZA	88	82	86	84	86	85	85	81	80	80	81	81	677	85		
16	8	LAGASCA,JOSEPHINE, NADAL	88	86	85	87	85	88	86	86	81	81	86	84	689	86		
17	9	MAULINO,KWIN CLAIRE, COLLADO	90	87	85	86	82	89	87	84	80	80	84	82	688	86		
18	10	PUNO,RICA JOYS, GRANDE	88	85	79	82	85	86	87	87	82	82	87	85	677	85		
19	11	TEJERAS,KC, BAUTISTA	84	80	82	77	72	80	78	79	79	80	79	79	632	79		
20	12	VILLADOS,JAMILLA FAITH, GARCIA	88	92	85	85	89	85	88	85	80	80	85	83	695	87		
21	13	VILLORIA,LOREIA, MANUNDO	79	78	86	76	78	83	78	79	78	78	78	78	636	80		

2. Sort by specifying criteria

Use this technique to choose the column you want to sort, together with other criteria such as font or cell colors.

1. Select a single cell anywhere in the range that you want to sort. Select the column B.

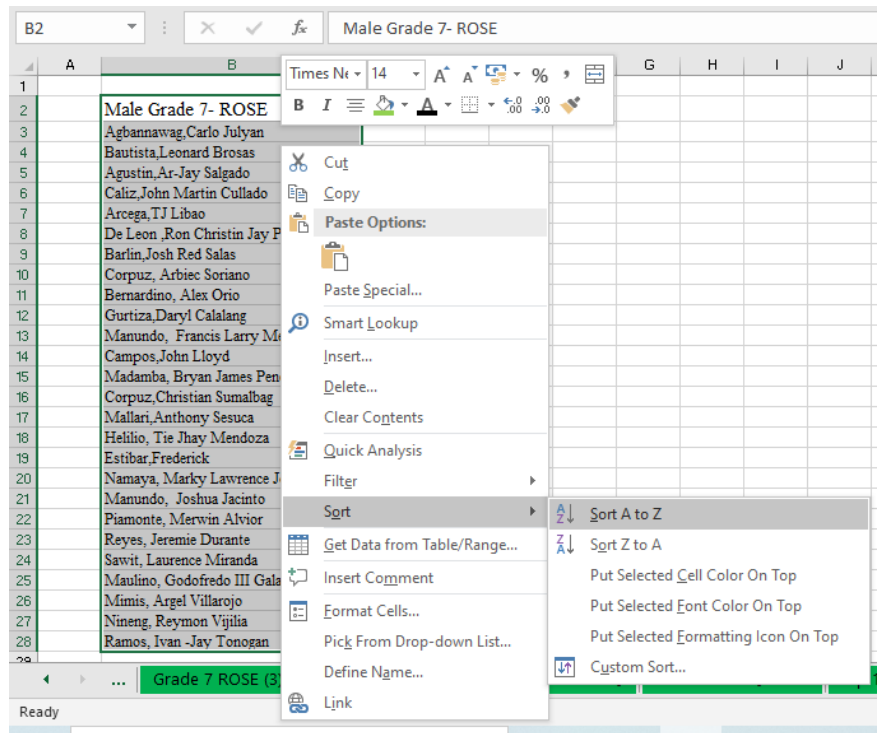


	A	B	C	D
1				
2		Male Grade 7- ROSE		
3		Agbannawag, Carlo Julyan		
4		Agustin, Ar-Jay Salgado		
5		Arcega, TJ Libao		
6		Barlin, Josh Red Salas		
7		Bautista, Leonard Brosas		
8		Bernardino, Alex Orio		
9		Caliz, John Martin Cullado		
10		Campos, John Lloyd		
11		Corpuz, Arbiec Soriano		
12		Corpuz, Christian Sumalbag		
13		De Leon, Ron Christin Jay Paralyag		
14		Estibar, Frederick		
15		Gurtiza, Daryl Calalang		
16		Helilio, Tie Jhay Mendoza		
17		Madamba, Bryan James Peneyra		
18		Mallari, Anthony Sesuca		
19		Manundo, Francis Larry Meries		
20		Manundo, Joshua Jacinto		
21		Maulino, Godofredo III Galang		
22		Mimis, Argel Villarojo		
23		Namaya, Marky Lawrence Jovillionar		
24		Nineng, Reymon Vijilia		
25		Piamonte, Merwin Alvior		
26		Ramos, Ivan -Jay Tonogan		
27		Reyes, Jeremie Durante		
28		Sawit, Laurence Miranda		

2. On the **Home** tab, in the **Sort & Filter** group, click **Sort** to display the Sort popup window or you can right click the mouse and it will display the menu click sort and click Sort A to Z.



In the **Order** list, choose the order that you want to apply to the sort operation—alphabetically or numerically, ascending or descending (that is, from A to Z (or Z to A) for text, or lower to higher, or higher to lower for numbers).



We can use the data sorting in finding your top 10 in your class.

1. Select the column you want to sort.

SECOND QUARTER			
GRADE 7-ROSE TOP 10			
RANK	NAME	AVERAGE	
1	SANTOS,NIKKO RAVEN, MIGUEL	88.219	
2	MAULINO,KWIN CLAIRE, COLLADO	86.000	
3	BALMAYO,LANCE COLINE, -	83.438	
4	VILLADOS,JAMILLA FAITH, GARCIA	86.813	
5	LAGASCA,JOSEPHINE, NADAL	86.063	
6	HELILIO,ARHIANE JOY, MENDOZA	84.563	
7	DELA CRUZ,ANALYN, CASTILLO	83.375	
8	FERNANDEZ, PRINCESS MARVI	85.125	
9	PUNO,RICA JOYS, GRANDE	84.563	
10	CORPUZ,CATHERINE, SUMALBAG	85.938	

2. Right click your mouse and click Sort. Click Sort Largest to Smallest.

The screenshot shows a spreadsheet with the same data as the first table. A right-click context menu is open over the 'AVERAGE' column. The 'Sort' option is selected, and the submenu shows 'Sort Largest to Smallest' as the chosen option. Other options in the menu include Cut, Copy, Paste Options, Smart Lookup, Insert..., Delete..., Clear Contents, Quick Analysis, Filter, Get Data from Table/Range..., Insert Comment, Format Cells..., Pick From Drop-down List..., Define Name..., and Link.

3. Click Custom Sort to set what column to sort. Choose the COLUMN R with the title “AVERAGE “. Set the SORT ON menu with “CELL VALUES” and set the ORDER in to “LARGEST TO SMALLEST” then click “OK”

The screenshot shows the 'Sort' dialog box with the following settings: 'Sort by' is 'AVERAGE', 'Sort On' is 'Cell Values', and 'Order' is 'Largest to Smallest'. The 'My data has headers' checkbox is checked. The dialog box also includes buttons for 'Add Level', 'Delete Level', 'Copy Level', and 'Options...'. The 'OK' button is highlighted.

FILTERING DATA

The **Excel FILTER** function "filters" a range of data based on supplied criteria. The result Filters can be applied in different ways to improve the performance of your worksheet. You can filter text, dates, and numbers. You can even use more than one filter to further narrow your results. When data is filtered, only rows that meet the filter criteria will display and other rows will be hidden. With filtered data, you can then copy, format, print, etc., your data, without having to sort or move it first. To use a filter,

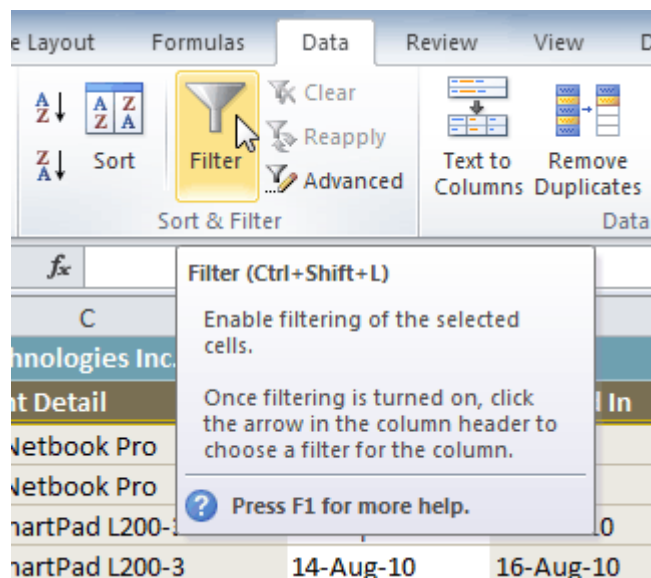
To filter data:

In this example, we'll filter the contents of an equipment log at a technology company. We'll display only the laptops and projectors that are available for checkout.

1. Begin with a worksheet that identifies each column using a header row.

	A	B	C	D
1	Equipment Log — Ragnar Technologies Inc.			
2	ID #	Type	Equipment Detail	Checked Out
3	1011	Laptop	10" Saris Netbook Pro	04-Oct-10
4	1012	Laptop	10" Saris Netbook Pro	29-Sep-10
5	1021	Laptop	15" EDI SmartPad L200-3	15-Sep-10
6	1022	Laptop	15" EDI SmartPad L200-3	14-Aug-10
7	1023	Laptop	15" EDI SmartPad L200-3	08-Aug-10
8	1025	Laptop	15" EDI SmartPad L200-4X	26-Sep-10
9	1031	Laptop	17" Saris X-10 Laptop	04-Oct-10
10	1032	Laptop	17" Saris X-10 Laptop	19-Sep-10
11	1033	Laptop	17" Saris X-10 Laptop	24-Sep-10
12	1034	Laptop	17" Saris X-10 Laptop	25-Aug-10
13	2050	Other	EDI SmartBoard L500-1	05-Oct-10
14	2051	Other	EDI SmartBoard L500-1	01-Oct-10
15	3000	Other	Saris Lumina Digital Camera	12-May-10

2. Select the **Data** tab, then locate the **Sort & Filter** group.
3. Click the **Filter** command.

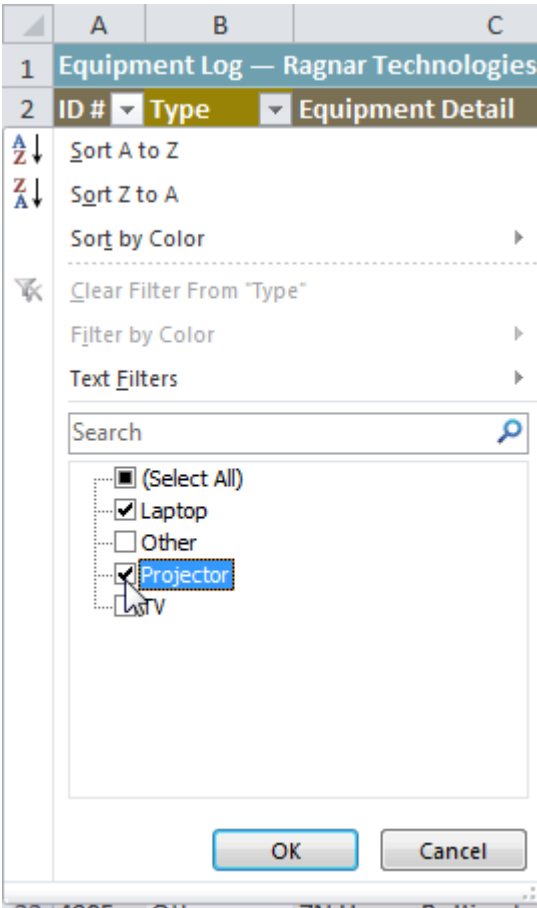


4. Drop-down arrows will appear in the header of each column.

- Click the **drop-down arrow** for the column you want to filter. In this example, we'll filter the Type column to view only certain types of equipment.

	A	B	C	D
1	Equipment Log — Ragnar Technologies Inc.			
2	ID #	Type	Equipment Detail	Checked Out
3	1011	Laptop	10" Saris Netbook Pro	04-Oct-10
4	1012	Laptop	10" Saris Netbook Pro	29-Sep-10
5	1021	Laptop	15" EDI SmartPad L200-3	15-Sep-10
6	1022	Laptop	15" EDI SmartPad L200-3	14-Aug-10
7	1023	Laptop	15" EDI SmartPad L200-3	08-Aug-10

- The **Filter** menu appears.
- Uncheck** the boxes next to the data you don't want to view, or uncheck the box next to **Select All** to quickly uncheck all.
- Check** the boxes next to the data you do want to view. In this example, we'll check Laptop and Projector to view only these types of equipment.



- Click **OK**. All other data will be filtered, or temporarily hidden. Only laptops and projectors will be visible.

	A	B	C	D
1	Equipment Log — Ragnar Technologies Inc.			
2	ID #	Type	Equipment Detail	Checked Out
3	1011	Laptop	10" Saris Netbook Pro	04-Oct-10
4	1012	Laptop	10" Saris Netbook Pro	29-Sep-10
5	1021	Laptop	15" EDI SmartPad L200-3	15-Sep-10
6	1022	Laptop	15" EDI SmartPad L200-3	14-Aug-10
7	1023	Laptop	15" EDI SmartPad L200-3	08-Aug-10
8	1025	Laptop	15" EDI SmartPad L200-4X	26-Sep-10
9	1031	Laptop	17" Saris X-10 Laptop	04-Oct-10
10	1032	Laptop	17" Saris X-10 Laptop	19-Sep-10
11	1033	Laptop	17" Saris X-10 Laptop	24-Sep-10
12	1034	Laptop	17" Saris X-10 Laptop	25-Aug-10
26	6100	Projector	Omega VisX 1.0	28-Sep-10
27	6101	Projector	Omega VisX 1.0	26-Sep-10
28	6102	Projector	Omega VisX 1.0	22-Aug-10

Filtering options can also be found on the Home tab, condensed into the **Sort & Filter** command.

WHAT IS A PIVOT TABLE?

A pivot table is a tool that allows you to quickly summarize and analyze data in your spreadsheet.

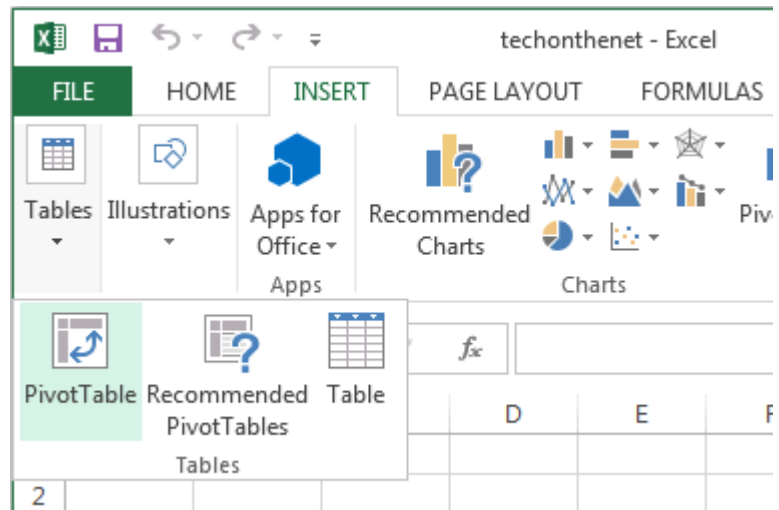
You can use a pivot table when:

- You want to arrange and summarize your data.
- The data in your spreadsheet is too large and complex to analyze in its original format.

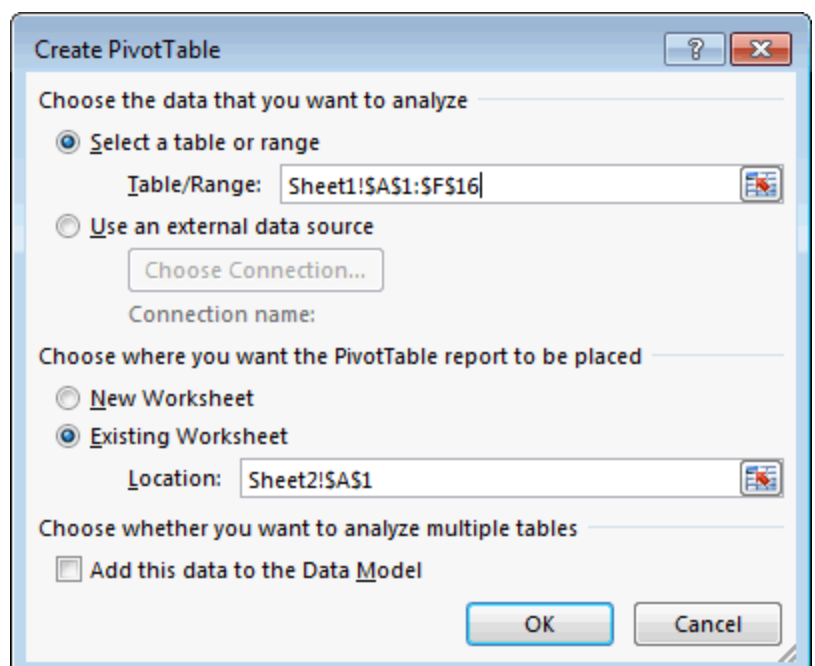
A1						
	A	B	C	D	E	F
1	Order ID	Product	Unit Price	Quantity	Total Cost	Discount
2	10248	Queso Cabrales	\$14.00	1	\$14.00	0.00%
3	10249	Manjimup Dried Apples	\$42.40	8	\$339.20	0.00%
4	10250	Tofu	\$18.60	3	\$55.80	0.00%
5	10251	Singapore Hokkien Fried Mee	\$9.80	10	\$98.00	0.00%
6	10252	Sir Rodney's Marmalade	\$64.80	9	\$583.20	0.00%
7	10253	Mozzarella di Giovanni	\$34.80	5	\$174.00	5.00%
8	10254	Tofu	\$18.60	9	\$167.40	5.00%
9	10255	Manjimup Dried Apples	\$42.40	40	\$1,696.00	5.00%

Highlight the cell where you'd like to see the pivot table. In this example, we've selected cell A1 on Sheet2.

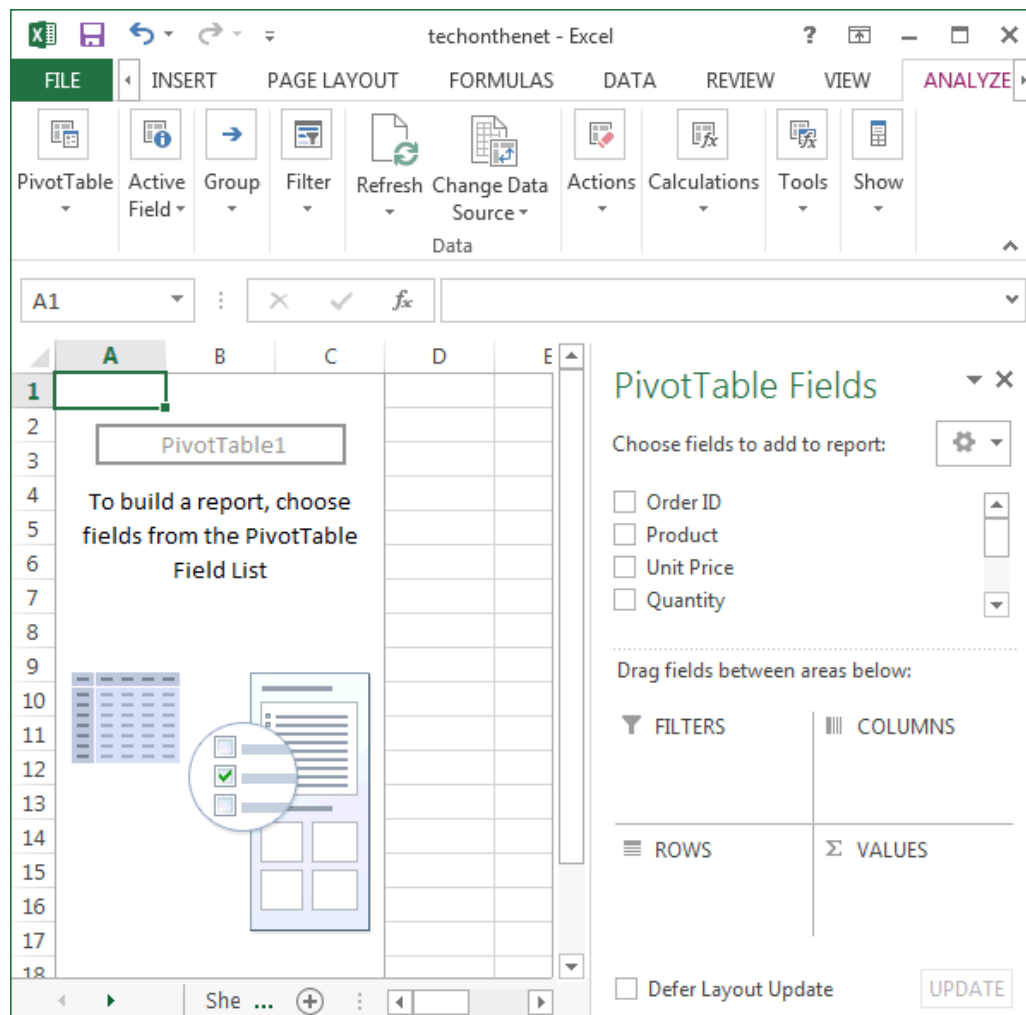
Next, select the **INSERT** tab from the toolbar at the top of the screen. In the **Tables** group, click on the *Tables* button and select PivotTable from the popup menu.



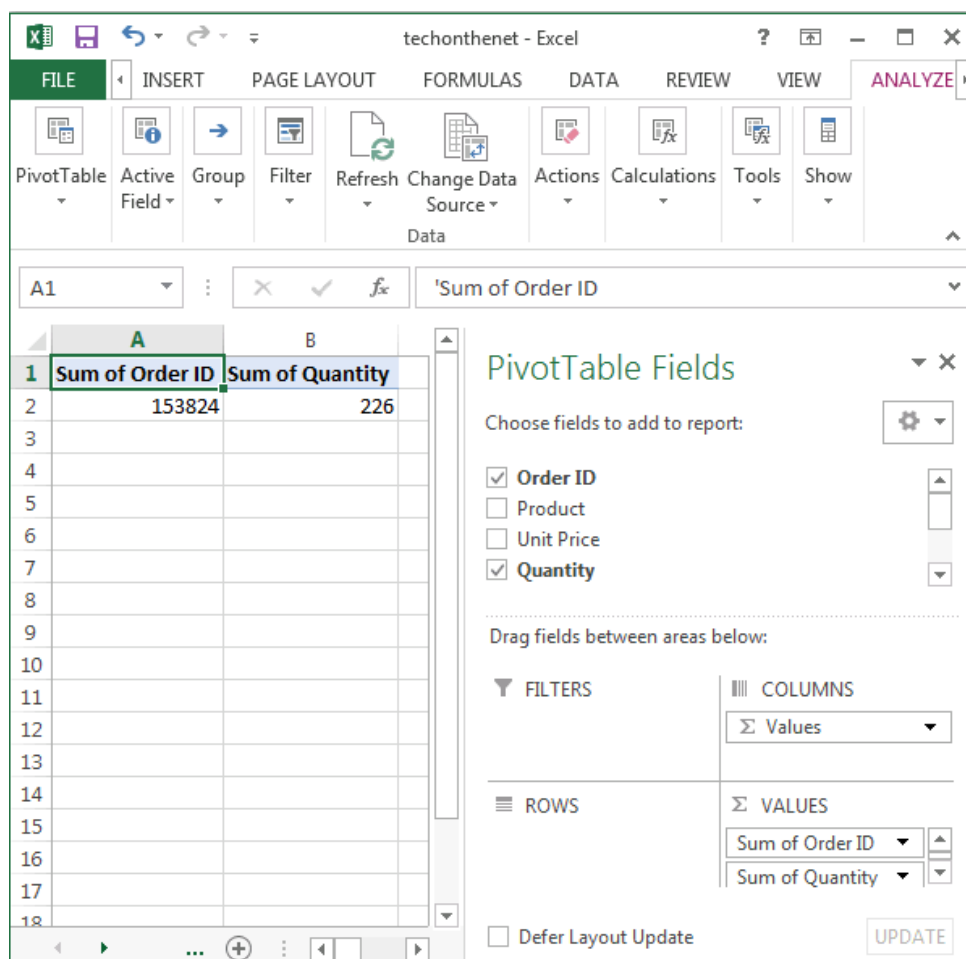
A *Create PivotTable* window should appear. Select the range of data for the pivot table and click on the OK button. In this example, we've chosen cells A1 to F16 in Sheet1.



Your pivot table should now appear as follows:



Next, choose the fields to add to the report. In this example, we've selected the checkboxes next to the **Order ID** and **Quantity** fields.



Next in the VALUES section, click on the "Sum of Order ID" and drag it to the ROWS section.

The screenshot shows an Excel window with a PivotTable and the PivotTable Fields task pane. The PivotTable is located in the range A1:B16. The task pane shows the following configuration:

Area	Field
VALUES	Sum of Quantity

The data in the PivotTable is as follows:

Row Labels	Sum of Quantity
10248	1
10249	8
10250	3
10251	10
10252	9
10253	5
10254	9
10255	40
10256	10
10257	35
10258	15
10259	6
10260	15
10261	60
Grand Total	226

Finally, we want the title in cell A1 to show as "Order ID" instead of "Row Labels". To do this, select cell A1 and type Order ID. Your pivot table should now display the total quantity for each Order ID as follows:

The screenshot shows the same Excel window as the previous one, but with the title in cell A1 changed to "Order ID". The PivotTable now displays the total quantity for each Order ID. The data in the PivotTable is as follows:

Order ID	Sum of Quantity
10248	1
10249	8
10250	3
10251	10
10252	9
10253	5
10254	9
10255	40
10256	10
10257	35
10258	15
10259	6
10260	15
10261	60
Grand Total	226

ACTIVITY 1

Identify the following. Write the correct answer in a one whole sheet of paper.

1. A _____ are the ready-made formulas that perform a series of operations on a specific range of values.
2. This function determines the highest cell value included in the argument.
3. _____ contain the information you want to calculate.
4. This function determines the average of the values included in the argument.
5. A _____ is a tool that allows you to quickly summarize and analyze data in your spreadsheet.

ACTIVITY 2: Write your answer in a one whole sheet of paper.

1. Find the final grade of Trisha Mae F. Estabillo in all learning areas using the average function. Give the function used and show your solution.

K9							
	A	B	C	D	E	F	G
2							
3		Name : TRISHA MAE F. ESTABILLO					2- LOVE
4		Learning Areas	Quarter 1	Quarter 2	Quarter 3	Quarter 4	FINAL GRADE
5		Filipino	87	89	90	90	
6		English	87	89	87	86	
7		Mathematics	86	85	90	91	
8		Science	88	87	89	90	
9		Araling Panlipunan	87	87	84	89	
10		Edukasyon sa Pagpapakatao	88	89	86	85	
11		Technology and Livelihood Education	90	91	92	95	
12		Mapeh	90	90	91	93	
13							

ACTIVITY 3: Write your answer in a one whole sheet of paper.

1. Find the total amount of payment of Edgar Manoloto in Paras Printing Press using the SUM function. Give the function used and show your solution.

F4				
	A	B	C	D
3		PARAS PRINTING PRESS		
4		Name of the customer: EDGAR MANOLOTO		
5		Item	Quantity	Price
6		HBW	1 BOX	205.00
7		PILOT PEN	12 PCS	150.00
8		CRAYONS	8 PCS	240.00
9		OSLO	50 PCS	100.00
10		SCISSOR	10 PCS	200.00
11		GLUE	5 PCS	150.00
12		PENCIL	2 BOXES	350.00
13		TOTAL		
14				

LEARNING COMPETENCY

Create functions, sort rows and columns and create Pivot tables?

REFERENCES

<https://.thetraininglady.com/functions-excel/>

<https://www.youtube.com/embed/LLKEHMm6fwY>

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