



DEPARTMENT OF EDUCATION SCHOOLS DIVISION OF NEGROS ORIENTAL **REGION VII**



Kagawasan Ave., Daro, Dumaguete City, Negros Oriental

Empowerment Technologies

Quarter 3 - Module 4: ADVANCED SPREADSHEET SKILLS





Media and Information Literacy – Senior High School Alternative Delivery Mode Quarter 3 – Module 3: Advanced Spreadsheet Skills First Edition, 2020

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EMPOWERMENT TECHNOLOGIES

Quarter 3 – Module 4: ADVANCED SPREADSHEET SKILLS



Introductory Message

For the facilitator:

Welcome to the <u>Empowerment Technologies</u> Alternative Delivery Mode (ADM) Module on <u>Advanced Spreadsheet Skills!</u>

This module was collaboratively designed, developed and reviewed by educators both from public and private institutions to assist you, the teacher or facilitator in helping the learners meet the standards set by the K to 12 Curriculum while overcoming their personal, social, and economic constraints in schooling.

This learning resource hopes to engage the learners into guided and independent learning activities at their own pace and time. Furthermore, this also aims to help learners acquire the needed 21st century skills while taking into consideration their needs and circumstances.

In addition to the material in the main text, you will also see this box in the body of the module:



Notes to the Teacher

This contains helpful tips or strategies that will help you in guiding the learners.

As a facilitator, you are expected to orient the learners on how to use this module. You also need to keep track of the learners' progress while allowing them to manage their own learning. Furthermore, you are expected to encourage and assist the learners as they do the tasks included in the module.

For the learner:

Welcome to the <u>Empowerment Technologies</u> Alternative Delivery Mode (ADM) Module on <u>Advanced Spreadsheet Skills!!</u>

This module was designed to provide you with fun and meaningful opportunities for guided and independent learning at your own pace and time. You will be enabled to process the contents of the learning resource while being an active learner.

This module has the following parts and corresponding icons:

6	What I Need to Know	This will give you an idea of the skills or competencies you are expected to learn in the module.
	What I Know	This part includes an activity that aims to check what you already know about the lesson to take. If you get all the answers correct (100%), you may decide to skip this module.
(2) o	What's In	This is a brief drill or review to help you link the current lesson with the previous one.
	What's New	In this portion, the new lesson will be introduced to you in various ways; a story, a song, a poem, a problem opener, an activity or a situation.
2	What is It	This section provides a brief discussion of the lesson. This aims to help you discover and understand new concepts and skills.
A BC	What's More	This comprises activities for independent practice to solidify your understanding and skills of the topic. You may check the answers to the exercises using the Answer Key at the end of the module.
	What I Have Learned	This includes questions or blank sentence/paragraph to be filled in to process what you learned from the lesson.
0 T 0	What I Can Do	This section provides an activity which will help you transfer your new knowledge or skill into real life situations or concerns.

	Assessment	This is a task which aims to evaluate your level of mastery in achieving the learning competency.
Ø _Ø	Additional Activities	In this portion, another activity will be given to you to enrich your knowledge or skill of the lesson learned.
Q ₁	Answer Key	This contains answers to all activities in the module.

At the end of this module you will also find:

References

This is a list of all sources used in developing this module.

The following are some reminders in using this module:

- 1. Use the module with care. Do not put unnecessary mark/s on any part of the module. Use a separate sheet of paper in answering the exercises.
- 2. Don't forget to answer *What I Know* before moving on to the other activities included in the module.
- 3. Read the instruction carefully before doing each task.
- 4. Observe honesty and integrity in doing the tasks and checking your answers.
- 5. Finish the task at hand before proceeding to the next.
- 6. Return this module to your teacher/facilitator once you are through with it.

If you encounter any difficulty in answering the tasks in this module, do not hesitate to consult your teacher or facilitator. Always bear in mind that you are not alone.

We hope that through this material, you will experience meaningful learning and gain deep understanding of the relevant competencies. You can do it!



This module was designed and written with you in mind. It is here to help you master the context of Empowerment Technologies. It contains varied activities that can help you as a Senior High School student to succeed in environments that require the use of computer and the Internet.

The module contains lesson in Advanced Spreadsheet Skills

Happy learning!

Content Standard:

> The learners demonstrate an understanding of: ICT in the context of global communication for specific professional track.

Performance Standard:

➤ The learners shall be able to: independently compose an insightful reflection paper on the nature of ICT in the context of their lives, society, and professional tracks (Arts, Tech Voc, Sports, Academic).

MOST ESSENTIAL LEARNING COMPETENCIES (MELC):

• Uses common productivity tools effectively by maximizing advanced application technologies **CS ICT11/12-ICTPT-Ic-d-4**

After going through this module, you are expected to:

- 1. Familiarize the most commonly used functions in Microsoft Excel.
- 2. Use several conditional functions available in Microsoft Excel; and
- 3. Verify the use of MS Excel as a viable tool in market research and product development.



Skills answe	by answering the questions belo	already know about the Advance Spreadsheet w. Use your notebook / worksheet for your
A. Mu	ultiple Choice: Select the letter of	the best answer from the given choices.
1.	What application program design be used to analyze statistical dat	ned to create spreadsheets which can later
	A. Microsoft Word	C. Microsoft PowerPoint
	B. Microsoft Excel	D. Microsoft Publisher
	What feature of MS Excel that caways start with an equal sign (=).	n contain up to 1024 characters and must
	A. Absolute Referencing	C. Functions
	B. Formula	D. Relative Referencing
3.	What number format that puts a A. percent	dollar symbol before each value by default? C. comma
	B. Currency	D. date / time
4.	What symbols that tell Excel exac	tly what type of calculations to perform.
	A. Math Operators	C. Absolute Referencing
	B. Symbol Operators	D. Relative Referencing
5.	What function that adds a range	cells
	A. ADD	C. TOTAL
	B. PLUS	D. SUM
6.	What do you call the cells that do	o not change?
	A. Math Operators	C. Absolute Referencing
	B. Symbol Operators	D. Formula Operators
7.	This is the tab in the Format Cel	ls dialog box where you can change the
or	ientation of a text.	
	A. View	C. File
	B. Orientation	D. Alignment

C. MEAN

D. SUM

8. What function that gets the average of range of cells?

A. MEDIAN

B. AVERAGE

9.	Which among the following A. Logical Test B. Range	g is not part of the syntax of C. Average Range D. Criteria	for AVERAGEIF?
		nt the number of cells that	contains something i
the	m if the criteria are met.		
	A. COUNTNOW	C. COUNTIF	
	B. COUNTING	D. COUNT	
11.	What function used to add	a certain range of cells if a	condition is met?
	A. ADDIF	C. SUMIF	
	B. TOTALIF	D. PLUSIF	
12.	What features of MS Excel	refers to the angle at which	a text is displayed?
	A. Layout	C. Orientation	
	B. Layout View	D. Formula in Cell	
13.	What function used to cou	ant the cells with content in	a range?
	A. COUNTNOW	C. COUNTIF	O
	B. COUNTING	D. COUNT	
14. box	_	g is the shortcut key for the	Format Cells dialog
502	A. Ctrl + F	C. Ctrl + 1	
	B. Alt + F	D. Shift + 1	
	abel that determine if the co A. Criteria	VERAGEIF function that incell is part of the range to be C. Logical Test D. Average Range	
	D. Nalige	D. Average Kange	

in

ICT

Advanced Spreadsheet Skills



What's In

For accountants, spreadsheets are an indispensable tool of their trade. They use spreadsheets, also called worksheets, to keep track of a company's income and expenses. A well-balanced spreadsheet helps the owner or the manager to get a clear picture of his or her company's financial status. Oftentimes, crucial decisions are not made until the company's spreadsheet has been analyzed. That is how important spreadsheet are.



What's New

Activity 1: Instruction: Below is a sample worksheet from MS Excel. With a ballpen and a short bond paper, copy and fill out the sheet using the data presented in the box. Then use a calculator to get the average.

Tampocon Institute of Technology XI - Gold June 17, 2020 Dejos, Willer Romano, Joram 86 99 89 89 87 91 Dupio, Clarence 92 88 91 Marino, Jumel 92 91 92 Seguihod, Remon 85 89 94 Dagle, Anthony 90 93 88 Gudio, Jessa 89 95 93 Lopez, Bernard 94 92 96 Silvano, Mary Guardario, Ramel 95 94 92 92 86 89

4	Α	В	С	D	E	F	G	Н
1	Name of 9	School:						
2								
3	Year and	Section:					Date:	
4								
5	Lastname	, Firstname	e, MI:					
6								
7								
8		Name of	Students		Quiz1	Quiz2	Quiz3	Average
9	1							
10	2							<u> </u>
11	3							
12	4							
13	5							
14	6							
15	7							
16	8							
17	9							
18	10							
10								



ADVANCED SPREADSHEET SKILLS

What is spreadsheet?

Spreadsheet refers to the spreadsheet program which is the electronic version of the familiar columnar pad. It is an application that helps the user to create spreadsheets commonly used for budgets, forecasting, and finance-related tasks.

Excel is a **spreadsheet program** that allows you to **store**, **organize**, and **analyze information**. While you may believe Excel is only used by certain people to process complicated data, anyone can learn how to take advantage of the program's **powerful features**. Whether you're keeping a budget, organizing a training log, or creating an invoice, Excel makes it easy to work with different types of data.

Advanced Spreadsheet Skills Needed in Life

- 1. Data Entry, Sorting, and Filtering
- 2. Applying Data Validation
- 3. Protecting Sheets and Locking Cells
- 4. Custom Filtering
- 5. Sort by Column

- 6. Pivot Tables
- 7. Macros and Scripts
- 8. Combine Multiple Functions to Create Formulas
- 9. Perform Calculations

In Excel, formulas are tools with which you can manipulate, analyze and draw calculations about your worksheet data. One of this program's most valuable features is its ability to store math formulas in individual cells. A formula is simply a mathematical operation you can perform in your worksheet. It is a sequence of values, cell references, names, functions and operators that are contained in a cell. The formula produces a new value from the existing value.

A formula can contain up to 1024 characters and must always start with an equal sign (=). In the Excel worksheet formula is a powerful tool. In its basic form, a formula can add, subtract, multiply or divide two numbers, displaying the answer in a cell that you choose. When you type a formula into a cell, Excel makes every attempt to display an answer to the formula.

How to Enter a Formula in a Worksheet Cell?

- 1. Click on the cell where you want to enter a formula and type = (equal sign) as the first character of your formula.
- 2. Enter a value or select the cell that includes the value you want in the formula.
- 3. Add the necessary operators or functions. Use parentheses, if applicable.
- 4. When the formula is complete, click on the *Enter button* on the Formula bar ✓ or press Enter.
- 5. Observe that the result of the formula you created appears in the cell, while the actual formula appears in the Formula bar.

Using Math Operators

Excel always knows exactly what type of calculations to perform. When you create a formula, you include symbols, called *math operators*, which tell Excel the kind of math operations to perform.

Operator	Description	
:	Reference operator (as in B3:D6)	
,	Argument separator	
-	Negation (as in -4)	
%	Percentage sign	
٨	Exponentiation	
* and /	Multiplication and division	
+ and -	Addition and subtraction	
&	Text concatenation (two strings	
	combined)	
>,<, >=, <=, <>	Comparison operators (greater than,	
	less than, greater than or equal to, less	
	than or equal to, not equal to)	

When you enclose part of a formula within a pair of parentheses, Excel evaluates that part as an independent unit. The result produces a used-in-thenormal, left-to-right flow calculation.

Understanding Cell Referencing

In copying and moving formulas in a worksheet. Excel assumes that you want to copy the formula's calculation, and not the cells involved in a calculation. Using cell references, you can control how formulas in a cell display when you paste or drag them to a new location. There two basic types of cell references: **the relative and the absolute cell reference**.

Ileing	Rel	ative	Refer	encing
OSIIIS	I/C	lative	Keiei	CHCIHE

4	А	В	С	D
1	Benz 9 Cent	er Inc.		
2	SALES INVE	NTORY		
3				
4	Item Name	No of items sold	Item price	Total
5				
6	BCI18-C	500	6,500.00	=B6*C6
7	BCI16-R	450	8,750.00	
8	BCI11-B	40	12,487.00	
9	BCI13-S	34	18,345.00	
10	BCI21-F	20	28,000.00	

By default, Excel records new formula entries are relative reference formulas. When you copy or move a relative reference formula, Excel changes the cell references in the copies of the formulas to reflect the relative location of the formula from the cell references in the formula.

Using Absolute Referencing

1	А	В	С
1	RGB Bank In	corporated	
2	MONTHLY B	ILL REPORT	
3			
4	Card Numbe	Current Balance	Amount Payable
5			
6	645234748-2	25,456.00	=B6*\$B\$10
7	323875937-5	9,543.00	
8	102945378-7	10.00	
9			
10	Interest Rat	3.5 %	

You use an absolute reference formula when you want to anchor cell references in a formula. In absolute referencing, the cell references always point to a specific location regardless of where the formula is moved or copied. When you anchor cell references, Excel will not adjust them when you copy the formula to a different location in a worksheet. Therefore, the absolute reference formula is more useful for relocating a formula's answer elsewhere on the same worksheet.

\$A\$2	The column and the row do not change when copied.
A\$2	The row does not change when copied.
\$A2	The column does not change wen copied

To use an absolute reference:

- 1. Click on the cell where you want to enter a formula.
- 2. Type the equal sign (=) to begin the formula.
- 3. Select the cell to be computed then enter an arithmetic operator.
- 4. Select another cell then press the F4 key on the keyboard to make the cell reference absolute. Observe the \$ signs added to the cell reference.

Cost Using Microsoft Excel

Let us assume that we are going to sell milk tea with the following information

Production Information

Product Name / Brand: Fresh Buko Shake+plus Company / Group Name: Benz9 Center Inc.

Product Description:

Fresh Buko Shake is s special shake using real/fresh young coconuts fruit and pure natural which is very good for the health.

Ingredients: Condensed milk, ice, buko fruit. Special sweetener

Estimated Sale Price: 30 Php per cup

1. Copy the information below:

	Α	В	С		
1		FRESH BUKO SHAKE			
2		Cost of Ingredients			
3	No.	Ingredients	Price/Glass		
4	1	Condensed Milk	6.00		
5	2	Ice	2.00		
6	3	Buko Fruit	10.00		
7	4	Special Sweetener	8.00		
8	5	Cup	3.00		
9		Total			
4.0					

2. Use the SUM formula to get the summation of the values from C4 to C7. The SUM formula is =SUM(C4:C7). Type this on cell C8 as shown below:



3. Check if out estimated price will earn us profit. Type the additional information shown below then apply the arithmetic formula for subtraction:

Δ	Α	В	С						
1		FRESH BUKO SHAKE							
2		Cost of Ingredients							
3	No.	Ingredients	Price/Glass						
4	1	Condensed Milk	6.00						
5	2	Ice	2.00						
6	3	Buko Fruit	10.00						
7	4	Special Sweetener	8.00						
8	5	Cup	2.00						
9		Total	28.00						
10		Estimated Price	30.00						
11		Profit	=C10-C9						

- 4. Our estimated price is less profitable since the result is only Php 3.00. Let us make an adjustment. Include the information below and deduct the Total from the New Sale price.
- 5. The result is Php 8.00. this is now definitely profitable at this price. However, this does not guarantee our product success.
- 6. Save your file as M4 Cost Ingredients.xlsx.

	Α	В	С						
1		FRESH BUKO SHAKE							
2		Cost of Ingredients							
3	No.	Ingredients	Price/Glass						
4	1	Condensed Milk	6.00						
5	2	Ice	2.00						
6	3	Buko Fruit	10.00						
7	4	Special Sweetener	7.00						
8	5	Cup	2.00						
9		Total	27.00						
10		Estimated Price	30.00						
11		Profit	3.00						
12									
13		Adjusted Sale Price	35						
14		Profif	=C13-C9						

Analyzing Data Using Microsoft Excel

It is now time for us to collect data from our target market. In reality, researchers would also come up with survey questions before they release the product. The data they gathered would help them determine if the product has any chance of succeeding in a target market.

For your group's product, come up with several questions that will help you determine how your sample from your target market would perceive your product. Your target market for this activity is the people in your school (teachers, students, personnel).

	SAMPLE SURVEY (For food products)							
Name	Name: Age:							
Incom	Income / Day:(optional)							
Instru	Instructions: Circle the letter of your answer.							
1.					duct's quality?			
	A. 1	B. 2	C. 3	D. 4	E. 5			
2.	On a scale	e of 1 – 5, h	ow would yo	ou rate the pr	oduct's test?			
	A. 1	B. 2	C. 3	D. 4	E. 5			
3.					roduct's presentation?			
	A. 1	В. 2	C. 3	D. 4	E. 5			
4.	Are you sa A. Yes	atisfied with B. No	the produc	t?				
5.	Would you A. Yes		ıd the produ	act to a friend	[?			
6.	A. 15.00 a		В. 16.00-	for this prod 25.00 C. 26 - 55.00				
Sug	gestions or	comments	:					
			·					

Add more questions fitting for your product. If your product is not a food product, replace the 'taste" rate with durability or function rate. Have this survey form approved by your teacher then produce around 15 copies of these.

Start your product testing in your school by letting students, teachers, and or personnel taste/test your product. Afterward, gather the data and place them in Microsoft Excel. A sample of this spreadsheet is on the next page using the milk tea example.

4	Α	В	С	D	E	F	G	Н	1	J	K	L	М	N	0	Р
1				Su	irvey Re	sult	ts									
2																
3						In a	sca	le o	f 1-5	YES	/NO			Price		\neg
4	No.	Last Name	First Name	Age	Student/ Teacher	Quality	Taste	Presentation	Product	Satisfied?	Recommended?	PHP 15 below	PHP 16-25	PHP 26-35	PHP 36-45	PHP 46-55
5	_ 1		Joram	17	Student	5		3	3	Yes	Yes		✓			
6	-	Dejos	Willer	19	Student	3	_	2	5	Yes	Yes	✓				
7		Dupio	Clarence Clark	18	Student	4	5	4	4	Yes	Yes		✓			
8	4	Marino	Jumel	17	Student	4	5	3	3	Yes	Yes		✓			
9	5	Sequihod	Remon	16	Student	3	4	3	4	Yes	Yes	✓				
10	6	Dagle	Anthony	18	Student	4	3	4	4	Yes	Yes		✓			
11	_ 7	Gudio	Jessa	26	Teacher	5	5	4	5	Yes	Yes			✓		
12	8	Lopez	Bernard	19	Student	4	4	3	4	Yes	Yes				~	
13	9	Silvano	Marven	18	Student	3	3	3	5	Yes	Yes			>		
14	10	Deguit	John Mark	17	Student	4	4	5	5	Yes	Yes		>			
5	11	Guardario	Ramel	22	Teacher	5	5	4	5	N _O	Yes		>			
6	12	Chua	Elemar	18	Student	4	2	4	4	Yes	Yes					✓
7	13	Depillo	Jino	19	Student	3	4	5	4	Yes	Yes		>			
18	14	Arbanilla	Jerald	28	Teacher	5	5	4	5	Yes	Yes			>		
19	15	Agustino	Joshua	19	Student	4	4	5	4	Yes	Yes		✓			
20	16	Fabillar	Nori	18	Student	3	4	4	3	Yes	Yes	V				
21	17	Emperado	Galen	17	Student	4	4	4	4	Yes	Yes		>			
22	18	Montecino	Angelo	17	Student	3	4	4	2	Yes	Yes			>		
23	19	Sanchez	Michael	25	Teacher	5	5	4	5	No	Yes		✓			
24	20	Duran	Christ John	19	Student	5	4	5	4	Yes	Yes		✓			

Figure

Note: To change the orientation of a text, press Ctrl + 1. To open the Format Cells dialog box > Alignment tab / under Orientation, specify the degrees you want.

Obviously this data is raw. Assuming that we have a huge sample, we have to apply for several formulas to be able to easily analyze the result of this survey.

Let us start by a simple average formula to determine the average rating of Quality, Taste, Presentation, and Product.

The syntax would be =AVERAGE (cells involved).

Example:

(Using figure 1, determine the average for quality.)

=AVERAGE(F5:19)

Determine the average for all your criteria and place them at the bottom of your survey results similar to the screenshot below.

26	Criteria	Average
27	Quality	
28	Taste	
29	Presentation	
30	Product	

Next, determine how many people said YES or NO if they were satisfied with the product or if they would recommend it to their friend. For this, we will use the **COUNTIF function.**

Using the **=COUNTIF** function will allow us to count the number of cells that contains something. However, in this case, we just need to count the ones that have YES or NO in them. For this, we have to use the COUNTIF function.

COUNTIF Function Syntax: **=COUNTIF** (range, criteria)

Range – the cells where the counting will take place.

Criteria – the label or value that determine if it is to be counted.

Example:

Using figure 1. The formula for getting the number of YES for the criteria is =COUNTIF (J5:J19, "YES")

Determine the number of YES answers in both criteria and place them at the bottom of your survey results similar to the screenshot below.

32	Criteria	Yes/No
33	Satisfied?	?
34	Recommended?	?

If we were to determine if we would sell your product or service to teachers or students, we can use the AVERAGEIF Function.

AVERAGEIF

Using the AVERAGEIF, we can average a range if the cell beside it equals to "teacher" and/ or "student".

AVERAGEIF uses the following syntax:

= AVERAGEIF (range, criteria, average range)

Range – the range of cells where you want to look for the criteria.

Criteria – a value or label that determines if a cell is part of the range to be averaged.

Average Range(optional) – the actual range of cells that will be averaged, if omitted, the range will be used instead.

55		
36	Qua	ality
37	Teacher	?
38	Student	?

= AVERAGEIF(E5:24,"Teacher",F5:F24)

Spreadsheet Terminology

- Accounting Number Format number format that is used for accounting
- Orientation the angle at which a text is displayed.
- Count a function used to count the cells with content in a range.
- Sum a function used to computer for the summation of the number of a range.
- Average a function used to compute for the average of the number of a range.
- COUNTIF a function used to compute for the summation of a range if a certain condition is met.
- AVERAGEIF a function used to compute for the average if a certain condition is met.
- Range the range of cells where you want to look for the criteria.
- Criteria a value or label that determines if a cell is part of the range to be averaged.
- Average Range the actual range of cells that will be averaged, if omitted, the range will be used instead.
- Relative Reference All cell references are called relative references, when copied across multiple cells, they change based on the relative position.
- Absolute Reference These are cell references that do not change when copied or filled in keeping a row and / or column constant.



What's More

Activity 2:

Determine other instances where you can use the COUNTIF, SUMIF, and AVERAGEIF functions.
·
How does Excel help analyze statistical data?
List down other functions you were able to analyze that are not part of
this lesson then briefly describe each of them.



Activity 3: Using the formulas you have learned, accomplish the following by analyzing your data. Use the data you have gathered.

- 1. Determine the number of people who are willing to pay a certain amount.
- 2. How many of the certain group (e.g., teacher/student) are willing to pay more?
- 3. How many of the certain group (e.g., teacher/student) like the presentation of the product/service?

Activity 4:

Try to sell your product or service in school. Then, check our profits. Encode the data of your profits in Microsoft Excel then use the formulas you have learned to determine if your product or service was profitable or not. Log the costumer's age range as well.

Your output will be grade based on the rubric below.

Category	Exemplary	Accomplished	Developing	Beginning	Score
Skills	All skills	Most skills in	Some skills	Few or no	
	from the	the topic are	in the topic	skills from	
	topic are	applied.	are applied.	the topic	
	applied.			are	
				applied.	
Content	The output	The output is	The output	The output	
	exceeds the	complete.	is somewhat	contains	
	expectations.		complete.	many	
				errors.	
Correctness	The output is	The output	The output	The output	
	free from	contains	has several	contains	
	errors.	minimal	errors.	many	
		errors.		errors.	
Efficiency	The student	The student was	The student	The student	
	was able to	able to finish	was able to	used the	
	finish the task	the task in the	complete the	least	
	in the most	projected	task but used	effective	
	effective way without	amount of time.	methods that consumed	methods in finishing	
	wasting time		more time or	the task.	
	and effort.		resource.	the tasis.	
Teamwork	The member is	The member	The member	The	
(Individual)	an effective	contributed to	exerted little	member did	
	team player.	the group.	effort in	not	
			accomplishing	contribute	
			the group's	to the	
			task.	group.	



A. Multiple Choice: Select the letter of the best answer from the given choices.

1. What application program design be used to analyze statistical data	ned to create spreadsheets which can later ta?
A. Microsoft Word	C. Microsoft PowerPoint
B. Microsoft Excel	D. Microsoft Publisher
2. What feature of MS Excel that ca always start with an equal sign (=).	an contain up to 1024 characters and must
A. Absolute Referencing	C. Functions
B. Formula	D. Relative Referencing
-	dollar symbol before each value by default?
A. percent	C. comma
B. Currency	D. date / time
•	etly what type of calculations to perform.
<u> -</u>	C. Absolute Referencing
B. Symbol Operators	D. Relative Referencing
5. What function that adds a range	
A. ADD	C. TOTAL
B. PLUS	D. SUM
6. What do you call the cells that do	o not change?
A. Math Operators	C. Absolute Referencing
B. Symbol Operators	D. Formula Operators
7. This is the tab in the Format Cel orientation of a text.	ls dialog box where you can change the
A. View	C. File
B. Orientation	D. Alignment
8. What function that gets the average	age of range of cells?
A. MEDIAN	C. MEAN
B. AVERAGE	D. SUM
9. Which among the following is no	t part of the syntax for AVERAGEIF?
A. Logical Test	C. Average Range
B. Range	D. Criteria
5	

- 10. What function used to count the number of cells that contains something in them if the criteria are met. A. COUNTNOW C. COUNTIF B. COUNTING D. COUNT 11. What function used to add a certain range of cells if a condition is met? C. SUMIF A. ADDIF B. TOTALIF D. PLUSIF 12. What features of MS Excel refers to the angle at which a text is displayed? A. Layout C. Orientation B. Layout View D. Formula in Cell 13. What function used to count the cells with content in a range? C. COUNTIF A. COUNTNOW B. COUNTING D. COUNT 14. Which among the following is the shortcut key for the Format Cells dialog box? A. Ctrl + F C. Ctrl + 1
- 15. What syntax used in the AVERAGEIF function that includes the value or label that determine if the cell is part of the range to be average?
 A. Criteria
 B. Range
 C. Logical Test
 D. Average Range

D. Shift + 1

B. Alt + F



Activity 6: Practice 101-Data Formula

- 1. Type the data given below.
- 2. Compare the profit, commission of the agent, and company's income using the following formulas:

Profit = sales - capital cost Agent's commission = sales * (4 %) Company's income = profit - agent's commission

- 3. Copy the formula for the rest of the appliances using the different ways of copying formulas.
- 4. Save your worksheet as DataFormula.

Appliance	Sales	Cost	Profit	Agent's Comm (4%)	Company's Income
Video	17, 350	14, 800			
compact disk					
Television set	16, 900	14, 950			
(21")					
Gas range	7, 500	5, 500			
Microwave	9, 000	8, 500			
oven					
Refrigerator	14, 000	12, 500			
Computer	28, 400	24, 000			
Washing	7, 500	6, 000			
machine					



15. A 15. A 14. C 14. C 13. D 13. D 15. D 15. D 11. C 11. C 10. C 10. C ∀.9 A . e 8. B 8' B 7. B 7. B O.6 O.6 2. D 2. D A.A A.A 3. B 3. B 5. B 5. B I' B I' B A. Multiple Choice A. Multiple Choice :Jn9mss9ssA What I know

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