Office 2016– Excel Basics 03

Video/Class Project #15

Introduction to Excel 3: Counting & Adding: COUNT, COUNTA, SUM, COUNTIFS, SUMIFS Functions

Goal in video: Learn how to count or add all the items. Learn how to count or add with conditions or criteria.

Topics Covered in Video:

- 1) Excel functions for counting and adding:
 - i. Counting:
 - 1. **COUNT function**: Counts numbers in a range of cells.
 - i. Counts only the Numbers!
 - ii. Will ignore text items.
 - iii. Example Seen in Class:

С	D	E
		COUNT
		Counts Numbers
		Count ALL Numbers
Sales		=COUNT(C5:C13)
\$100		
\$200		**When you specify a "criter
<mark>\$100</mark>		calculation on all the items, ju
\$300		
\$700		
\$100		Criteria
\$200		Gigi
\$500		Criteria
\$200		10/23/2017

- 2. COUNTA function: Count all the cells that are not empty in a range of cells.
 - i. Can be used for counting words.

B	С	D	E	F	
			COUNT	COUNTA	
			Counts Numbers	Counts cells not empty	
			Count ALL Numbers	Count ALL Words	
SalesRep	Sales		9	=COUNTA(B5:B13)	
Chin	\$100				
Gigi	\$200		**When you specify a "criteria" or "condition" you are say		
Dawn	\$100		calculation on all the items, just on some of the items".		
Chin	\$300			COUNTIFS	
Chin	\$700			Count w/ 1 or more criteria	
Dawn	\$100		Criteria	Count	
Gigi	\$200		Gigi	4	
Gigi	\$500		Criteria	Count	
Gigi	\$200		10/23/2017	4	

- 3. **COUNTIFS function**: Counts just some of the items in a range of cells based on a condition of set of criteria.
 - i. **Example**: Can count how many times the word "Gigi" appears in a range of names.

	SalesRep	Sales	9	9	
7	Chin	\$100			
7	Gigi	\$200	**When you specify a "criter	ia" or "condition" you are say	
7	Dawn	\$100	calculation on all the items, just on some of the items".		
7	Chin	\$300		COUNTIFS	
7	<u>Chin</u>	\$700		Count w/ 1 or more criteria	
7	Dawn	\$100	Criteria	Count	
7	Gigi	\$200	Gigi	=COUNTIFS(B5:B13,E11)	
7	Gigi	\$500	Criteria	Count	
7	Gigi	\$200	10/23/2017	4	

- ii. Adding:
 - 1. **SUM function**: Adds numbers in a range of cells.
 - 2. **SUMIFS function**: Add just some of the numbers in a range based on a condition of set of criteria.

2) Example: Can add the sales for just the Sales Representative "Gigi".

	SalesRep	Sales	9	9	\$2,400			
7	Chin	\$100						
7	Gigi	\$200	**When you specify a "criteria" or "condition" you are saying: "don't make the					
7	Dawn	\$100	calculation on all the items, j					
7	Chin	\$300		COUNTIFS	SUMIFS			
7	Chin	\$700		Count w/ 1 or more criteria	Add w/ 1 or more criteria			
7	Dawn	\$100	Criteria	Count	Sum			
7	Gigi	\$200	Gigi	4	=SUMIFS(C5:C13,B5:B13,E11)			
7	Gigi	\$500	Criteria	Count	Sum			
7	Gigi	\$200	10/23/2017	4	\$600			

COUNTIFS

- i. Counts just some of the items in a range of cells based on a condition of set of criteria. Can count with 1 or more conditions/criteria.
- ii. **criteria_range1** argument will contain the range with all the items to possible count.
- iii. **criteria1** argument contains the condition or criteria that tells the function what to count. Conditions and criteria could be things like:
 - 1. Text (like "Gigi").
 - 2. Dates or Numbers like: 10/23/2017

3) SUMIFS

- i. Add just some of the numbers in a range based on a condition of set of criteria. Can add with 1 or more conditions/criteria.
- ii. **sum_range** argument will contain the range with the numbers.
- iii. **criteria_range1** argument will contain the range with all the items to possible consider.
- iv. **criteria1** argument contains the condition or criteria that tells the function what to consider. Conditions and criteria could be things like:
 - 1. Text (like "Gigi").
 - 2. Dates or Numbers like: 10/23/2017