

Exercise 1

	A	B	C	D	E	F	G	H	I	J
1		1	2	3	4	5	6	7	8	9
2	1									
3	2									
4	3									
5	4									
6	5									
7	6									
8	7									
9	8									
10	9									

Create a formula that creates the table of multiplication, start in cell B2 and drag to J10.

=\$A2*B\$1

Exercise 3

	A	B	C	D	E
1	Monthly Sales				
2	Sale Date	Item	Quantity Sold	Unit Price	Amount
3	10/01/2017	Flash Memory	10	12	
4	10/01/2017	KeyBoard	2	16	
5	01/03/2017	Ram 4 GB	5	30	
6	10/02/2017	Flash Memory	10	12	
7	10/04/2017	Flash Memory	50	12	
8	10/01/2017	Ram 4 GB	2	30	
9	Number of Flash Memory				
10	Total Amount of Flash Memory				
11	Number of Items sold in 10/01/2017				
12	Average Amount of Items sold in 10/01/2017				

1. Calculate the amount of every Item (Quantity sold * Unit Price)

=C3*D3

2. In cell D9, write a formula that counts the number of Flash memory.

=countif(b3:b8,"flash memory")

3. In cell D10, write a formula that calculates the sum of amount of the item Flash Memory.

=sumif(b3:b8,"flash memory",e3:e8)

4. In cell D11, write a formula that counts the number of Items sold in 10/01/2017.

=COUNTIF(A3:A8,"1/10/2017")

In cell D12, write a formula that calculates the average amount of items sold in 10/01/2017.

=AVERAGEIF(A3:A8,"1/10/2017",E3:E8)

Exercise 4

	A	B	C	D
1	Student Name	Average	Passed/Failed	New Average
2	Sarah	80		
3	Ali	70		
4	Roy	58		
5	Dani	62		

1- Enter a formula in cell **C2** to display Passed or Failed depending on the following condition:

If the **average is ≥ 65** then display **Passed**, else display **Failed**


C2: =if(b2 \geq 65,"Passed","Failed")

2- Enter a formula in cell **D2** to calculate the new Average depending on the following condition:

If the average is ≥ 65 then add **1 pt** to the **average** (B2), else add **5 pts** to the **average**.

D2: : =if(b2 \geq 65, b2+1, b2+5)

Exercise 5

	A	B	C	D	E	F	G	H
1	Coffee Shop							
2	Today				Tax 1	5%		
3					Tax 2	10%		
4	Product	Cost	Price	Company Name	Profit	Quantity sold	Profit of all quantity	Tax
5	<i>Green Tea</i>	2000	5000	Lipton		50		
6	<i>Espresso</i>	1000	3000	Najjar		25		
7	<i>Yellow Tea</i>	1000	3000	Lipton		38		
8	<i>Nescafe</i>	3000	7000	Nestle		10		
9	<i>Mint</i>	1000	3000	Lipton		15		
10	<i>Lowest Profit</i>							
11	<i>Number of products</i>							
12	<i>Cost = 1000</i>							
13	<i>Total Profit of Lipton</i>							
14	<i>Average Profit of Lipton</i>							

1- Enter a formula in cell B2 to enter the current date.

=Today ()

2- Enter a formula in cell E5 to calculate the Profit for Green Tea, which is the subtraction between Price and Cost.

=C5-B5

3- Enter a formula in cell G5 to calculate the Profit of quantity of Green Tea, which is the Multiplication of Quantity sold with the Profit.

=F5*E5

4- Enter a formula in cell H5 to calculate the Tax of profit of all quantity.

- If the "profit of all quantity" is $\geq 50,000$, multiply the "profit of all quantity" by the value of Tax1; Otherwise multiply it by the value of Tax2.

=IF (G5>50000,G5*F\$2,G5*F\$3)

5- Enter a formula in cell E10 to find the Lowest Profit.

=MIN(E5:E9)

6- Enter a formula in cell E11 to find the number of all products.

=COUNTA(A5:A9)

7- Enter a formula in cell E12 to find the number of products having Cost =1000.

=COUNTIF(B5:B9,"=1000")


8- Enter a formula in cell E13 to calculate the total of profit of products having company "Lipton".

=SUMIF(D5:D9,"lipton",E5:E9)

9- Enter a formula in cell E14 to calculate the average of profit of products having company "Lipton".

=averageif(D5:D9,"lipton",E5:E9)

Exercise 7

	A	B	C	D	E	F	G	H
1	COMPANY	CAR NAME	Model	CAR PRICE	AUDI R8			
2	BMW	X5	2016	\$ 40,000				
3	AUDI	R8	2016	\$ 60,000				
4	MERCEDES	C 300	2017	\$ 50,000				
5	AUDI	A6	2017	\$ 25,000				
6	BMW	X6	2015	\$ 55,000				
7	BMW	X3	2015	\$ 45,000				

a- Count the number of cars exists in the table.

=COUNTA(A2:A7)

b- Count the number of BMW Company.

=COUNTIF(A2:A7,"bmw")

c- Calculate the sum of the car prices.

=SUM(D2:D7)

d- Calculate the sum of the car prices of Audi Company.

=sumif(a2:a7,"audi",d2:d7)

e- Count the number of BMW companies having model 2015.

=countifs(a2:a7,"bmw",c2:c7,"2015")

f- Calculate the sum of the car prices of BMW Company having model 2015.

=sumifs(d2:d7,a2:a7,"bmw",c2:c7,"2015")