

BASIC Calculation – Mix Formula

Ms-Excel

Formula-Exercise -1 (Click here for Solution)

- Calculate Total Price, Discount Amount and Net Amount of following items.

Purchase Item - List						
Item Name	Qty	Price	Total Price	Discount%	Discount Amount	Net Amount
Chair	2	400	= Product(B3:C3)	2%	=D3*E3	=D3-F3
Table	2	600	= Product(B4:C4)	2%	=D4*E4	=D4-F4
Almira	3	2000	= Product(B5:C5)	3%	=D5*E5	=D5-F5
Sofa	4	5000	= Product(B6:C6)	3%	=D6*E6	=D6-F6

- After Apply formula on sheet , value show as below image.

	A	B	C	D	E	F	G
1	Purchase Item - List						
2	Item Name	Qty	Price	Total Price	Discount%	Discount Amount	Net Amount
3	Chair	2	400	800	2%	16	784
4	Table	2	600	1200	2%	24	1176
5	Almira	3	2000	6000	3%	180	5820
6	Sofa	4	5000	20000	3%	600	19400

Formula-Exercise -2(Click here for Solution)

- Calculate 5 Students Total Marks, Average Marks and Division of following Students.

DAV Public School - Class 11th							
Student's Name	Math's	English	Account	Economics	Total Marks	Average Marks	Division
Vikram	56	56	45	76	=SUM(B3:E3)	=AVERAGE(B3:E3)	
Megha	4	3	6	78	=SUM(B4:E4)	=AVERAGE(B4:E4)	
Lalit	56	54	33	43	=SUM(B5:E5)	=AVERAGE(B5:E5)	
Rini	34	5	4	67	=SUM(B6:E6)	=AVERAGE(B6:E6)	
Piyush	99	89	78	79	=SUM(B7:E7)	=AVERAGE(B7:E7)	

- Division formula for vikram Student

=IF(G3>=60,"1st",IF(G3>=50,"2nd",IF(G3>=33,"3rd","fail")))

same as apply for all other students

- After Apply formula on sheet, value show as below image.

	A	B	C	D	E	F	G	H
1	DAV Public School - Class 11th							
2	Student's Name	Maths	English	Account	Economics	Total Marks	Average Marks	Division
3	Vikram	56	56	45	76	233	58.25	2nd
4	Megha	4	3	6	78	91	22.75	fail
5	Lalit	56	54	33	43	186	46.5	3rd
6	Rini	34	5	4	67	110	27.5	fail
7	Piyush	99	89	78	79	345	86.25	1st

Formula-Exercise -3(Click here for Solution)

Name of Employee	Salary	Designation	Bonus
Sandeep	18000	Developer	2000
Raman	22000	Typist	5000
Vinay	25000	Typist	4000
Arun	45000	Admin	2300
Hemant	16000	Typist	5000
Mayank	80000	Asst. Manager	4000
Rohit Rana	95000	Sen. Developer	8000
Total Salary/Bonus	=SUM(B2:B8)		=SUM(D2:D8)
Min Salary			=MIN(B2:B8)
Max Salary			=MAX(B2:B8)
Average Salary			=AVERAGE(B2:B8)
No. of Typist			=COUNTIF(C2:C8,"Typist")
No of Employee bonus equal or above 4000			=COUNTIF(D2:D8,">=4000")
No.of Employee getting salary more than 25000			=COUNTIF(B2:B8,">25000")

- Apply formula as per show in above table.
- After apply formula final sheet show as below image

Practice Exercise -1 ([Click here for Solution](#))

Student name	Math's	Eng	Account	Business	Economics	Total	Grade	Result
Heena	23	34	43	43	76			
Priya	32	45	54	56	56			
vivek	23	56	65	65	54			
Sonu	34	54	76	65	43			
Ravi	54	43	45	56	23			

- **In G Column** - Sum of All subject Marks show with appropriate formula

- **In H column** - Grade show According to following criteria.

A+ - if Total marks value is more than 450.

A - if Total marks value is more than 400.

B - if Total Marks value is more than 300.

C - if Total Marks value is more than 250

E - Below Total marks 250.

Example (Hint) – =if(H2>450,"A+",if(H2>400,"A".....upto E grade

- **In I column** - Result show as Pass, fail or Compartment According to criteria and formula.

if Any One Subject marks below 33 - **Compartment**

if Any two Subject Marks below 33 - **Compartment**

if Any Three subject or more 3 Subject Below 33 - **Fail**

if All subject Marks above 33 - **Pass**

- **Apply formula in I Column for 2nd Row and same for other row (Change row no)**

=IF(COUNTIF(B2:F2,">=33")=5,"Pass",IF(COUNTIF(B2:F2,">=33")>=3,"Compartment",IF(COUNTIF(B2:F2,">=33")<3,"Fail")))

➤ After Apply formula on sheet , value show as below image.

	A	B	C	D	E	F	G	H	I
1	Student name	Math's	Eng	Account	Business	Economics	Total	Grade	Result
2	Heena	5	89	5	88	6	193	D	Fail
3	Priya	32	45	54	56	56	243	D	Compartment
4	vivek	23	56	65	65	54	263	C	Compartment
5	Sonu	34	54	76	65	43	272	C	Pass
6	Ravi	54	43	45	56	23	221	D	Compartment

Practice Exercise -2([Click here for Solution](#))

- Calculate **Total Purchase / Sales and Profit** of following Items.

	A	B	C	D	E	F	G	H
1	Product	Qty	Purchase Price	Discount	Total Amount	Sales Price	Total Amount	Profit/Loss
2	Item A	5	200	2%		250		
3	Item B	5	150	2%		180		
4	Item C	10	90	3%		110		
5	Item D	10	150	3%		130		
6	Total Purchase/Sales and Profit							

- Using Product formula calculate Purchase Price with QTY on Total Amount for Purchase
- Using Product formula calculate Sales Price with QTY on Total Amount for Sales
- Sales Amount - Purchase Amount for Calculate Profit/Loss
- on 6th Row calculate final Total Purchase (E6) Cell and sales (G6) Cell with Profit (H6) Cell.
- Below image show after the apply Appropriate formula on Above sheet Cell.

	A	B	C	D	E	F	G	H
1	Product	Qty	Purchase Price	Discount	Total Amount	Sales Price	Total Amount	Profit/Loss
2	Item A	5	200	2%	980	250	1250	270
3	Item B	5	150	2%	735	180	900	165
4	Item C	10	90	3%	873	110	1100	227
5	Item D	10	150	3%	1455	130	1300	-155
6	Total Purchase/Sales and Profit					4043	4550	507

Total Amount Purchase (Example-Formula) (Hint)

=Product(B2,C2)- Product(B2,C2)*D2

Practice Exercise -3 ([Click here for Solution](#))

- Using Appropriate formula find out the subject offered and scholarship provide to Student

Student name	Grade	Father's Salary	Subject offer	Scholarship Amount
Vivek	B	15000		
Naveen	B+	22000		
Sonia	A	9000		
Piyush	A+	25000		
Sandeep	C	18000		

- Scholarship offered 100% of those student father's salary equal or above Rs 15,000 (Maximum Scholarship upto 16,000).
- Scholarship 50% of those Student's father salary below 15,000. (Min Scholarship Rs 8,000)
- Subject Offered according to Grade following table.

Grade	Subject Offered
A+	Math's
A	Account
B+	Economics
B	Business Study
C	Marketing

Formula for Subject offered – Example (Hint)

=if(B2="A","Business Study",if(B2="B","History" upto Grade C

Formula for Scholarship

=if(c2>16000,16000,if(c2>15000,c2*100%,max(c2*50%,8000)))