

Q1. Explain the difference between relative, absolute and mixed cell referencing.

DATA :

### Relative Cell Referencing :

A reference that **changes automatically** when a formula is copied to another cell.

Example: A1

If copied one row down, it becomes A2.

### Absolute Cell Referencing :

A reference that **does not change** when copied.

A dollar sign (\$) locks both the row and column.

Example: \$A\$1

If copied anywhere, it stays \$A\$1.

### Mixed Cell Referencing :

Only **one part is locked**:

\$A1 → Column A locked

A\$1 → Row 1 locked

One part adjusts, the other remains fixed.

Table		
	Vehicle	Price
Car		500000
Bicycle		10500
Autorikshaw		25000

Assume:

**Column A = Items**

**Column B = Sales or Price**

So:

**A2 = Car, B2 = 500000**

**A3 = Bicycle, B3 = 10500**

**A4 = Auto-Rickshaw, B4 = 25000**

***Q.2 Write a formula to calculate the total sales of Car and Bicycle only***

Table		
	Vehicle	Price
Car		500000
Bicycle		10500
Autorikshaw		25000

Answer--> Sum(B5,B6)

Total sale( price) of Car and Bicycle

510500

Q3. Using the data below, write a formula to calculate the average sales of items priced above 100 but less than 300

Item	Price	Sales
A	90	1000
B	150	1200
C	250	1500

Answer--> AVERAGEIFS(C3:C6,B3:B6,">100",B3:B6,"<300")

1350

OrderID	CustomerName	Region	Product	Quantity	UnitPrice	OrderDate	Total Sales	Total Count	Total Sales of Notebooks in North Region only
1001	Amit Sharma	North	Notebook	10	50	01/05/2024	500	50	2900
1002	Neha Verma	South	Pen	20	10	01/06/2024	200		
1003	Rahul Singh	East	Marker	15	25	01/07/2024	375		
1004	Pooja Mehta	West	Notebook	5	50	01/08/2024	250		
1005	Ankit Jain	North	Pencil	30	5	01/10/2024	150		
1006	Sneha Patel	South	Notebook	12	50	01/11/2024	600		
1007	Vikas Gupta	East	Eraser	25	8	01/13/2024	200		
1008	Meera Nair	West	Pen	18	10	01/15/2024	180		
1009	Anjali Rao	North	Marker	22	25	01/17/2024	550		
1010	Manoj Das	South	Notebook	8	50	01/18/2024	400		
1011	Ritika Sen	East	Pencil	40	5	01/19/2024	200		
1012	Karan Malhotra	West	Eraser	35	8	01/20/2024	280		
1013	Aryan Joshi	North	Notebook	14	50	01/22/2024	700		
1014	Divya Kapoor	South	Pen	28	10	01/23/2024	280		
1015	Sahil Arora	East	Marker	12	25	01/24/2024	300		
1016	Muskan Jain	West	Pencil	25	5	01/26/2024	125		
1017	Rohan Gupta	North	Eraser	20	8	01/28/2024	160		
1018	Nidhi Sharma	South	Notebook	10	50	01/29/2024	500		
1019	Tarun Verma	East	Pen	15	10	01/30/2024	150		
1020	Simran Kaur	West	Marker	18	25	02/01/2024	450		
1021	Deepak Rao	North	Notebook	9	50	02/02/2024	450		
1022	Payal Mehta	South	Pencil	35	5	02/03/2024	175		
1023	Aditya Singh	East	Eraser	30	8	02/04/2024	240		
1024	Shreya Nair	West	Notebook	11	50	02/06/2024	550		
1025	Sanjay Kumar	North	Pen	14	10	02/07/2024	140		
1026	Aarti Sharma	South	Marker	16	25	02/08/2024	400		
1027	Rajesh Patel	East	Pencil	22	5	02/09/2024	110		
1028	Preeti Joshi	West	Eraser	27	8	02/10/2024	216		
1029	Anurag Mishra	North	Notebook	13	50	02/12/2024	650		
1030	Sanya Kapoor	South	Pen	32	10	02/13/2024	320		
1031	Harsh Yadav	East	Marker	10	25	02/14/2024	250		
1032	Kajal Rani	West	Pencil	18	5	02/16/2024	90		
1033	Varun Sharma	North	Eraser	22	8	02/17/2024	176		
1034	Swati Arora	South	Notebook	17	50	02/18/2024	850		
1035	Akhil Jain	East	Pen	19	10	02/19/2024	190		
1036	Priyanka Das	West	Marker	15	25	02/21/2024	375		
1037	Ravi Nair	North	Pencil	28	5	02/22/2024	140		
1038	Komal Singh	South	Eraser	24	8	02/23/2024	192		
1039	Ayesha Khan	East	Notebook	16	50	02/25/2024	800		
1040	Arjun Mehta	West	Pen	27	10	02/26/2024	270		
1041	Sonali Gupta	North	Marker	21	25	02/27/2024	525		
1042	Neeraj Kapoor	South	Pencil	30	5	02/28/2024	150		
1043	Shruti Sharma	East	Eraser	26	8	03/01/2024	208		
1044	Yash Arora	West	Notebook	14	50	03/02/2024	700		
1045	Manish Das	North	Pen	20	10	03/03/2024	200		
1046	Rupal Nair	South	Marker	17	25	03/04/2024	425		
1047	Sonia Verma	East	Pencil	19	5	03/05/2024	95		
1048	Kunal Singh	West	Eraser	32	8	03/06/2024	256		
1049	Ritika Jain	North	Notebook	12	50	03/07/2024	600		
1050	Vivek Malhotra	South	Pen	25	10	03/08/2024	250		

**Q.4 Count how many customer names are recorded**

Answer- COUNTA(B2:B51) 50

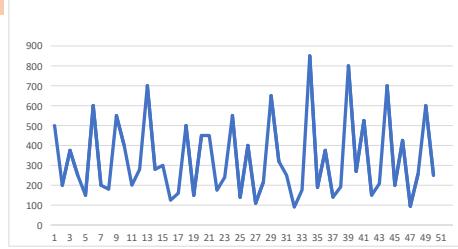
**Q.5 Calculate the Total Sales for each row using a formula.**

Answer- SUM(H:H) 16543

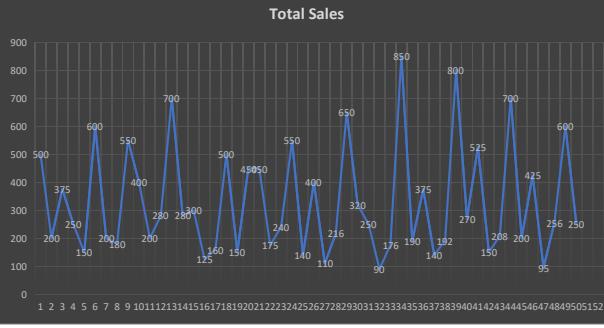
**Q.6 Calculate the total sales of Notebooks in the North region only**

Answer- SUMIFS(H2:H51,D2:D51,"Notebook",C2:C51,"North") 2900

**Q.7 Create a column chart showing total sales by product**

Answer- 

**Q.8 Insert a line chart showing daily sales trend**

Answer- 

Day	Sales
1	500
2	200
3	375
4	250
5	600
6	150
7	200
8	180
9	550
10	400
11	700
12	200
13	280
14	300
15	125
16	150
17	175
18	140
19	216
20	110
21	320
22	176
23	190
24	140
25	182
26	270
27	525
28	208
29	200
30	425
31	286
32	250
33	600
34	850
35	800
36	650
37	375
38	90
39	176
40	192
41	150
42	208
43	140
44	150
45	176
46	192
47	140
48	176
49	192
50	150
51	176