

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

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.

DATA :

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
Authorikshaw	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

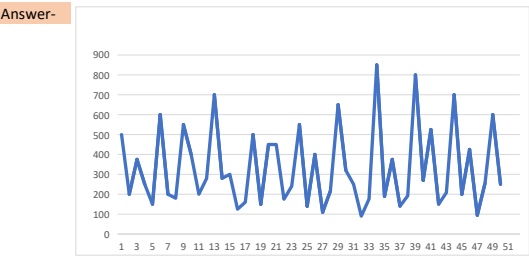
Q.5 Calculate the Total Sales for each row using a formula.

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



Q.8 Insert a line chart showing daily sales trend

