

## Exercise-1

	countif / countifs	Formula
number of orders in Boston :	4	<code>=COUNTIF(G2:G25,"Boston")</code>
number of microwave orders :	5	<code>=COUNTIF(D2:D25,"microwave")</code>
number of journeys with truck 3:	8	<code>=COUNTIF(F2:F25,"truck 3")</code>
number of Peter White journeys:	6	<code>=COUNTIF(C2:C25,"Peter White")</code>
how many times are no. of items less than 20:	9	<code>=COUNTIF(E2:E25,"&lt;20")</code>
	sumif / sumifs	
sum of refrigerator items:	105	<code>=SUMIF(D2:D25,"refrigerator",E2:E25)</code>
sum of washing machine items:	164	<code>=SUMIF(D2:D25,"washing machine",E2:E25)</code>
sum of items transported by truck 4:	156	<code>=SUMIF(F2:F25,"truck 4",E2:E25)</code>
sum of items transported by trucks:	511	<code>=SUMIF(F2:F25,"truck*",E2:E25)</code>
	countifs	
number of microwave orders in Boston :	2	<code>=COUNTIFS(D2:D25,"=microwave",G2:G25,"=Boston")</code>
number of Peter White journeys with truck 1:	2	<code>=COUNTIFS(C2:C25,"=Peter White",F2:F25,"=truck 1")</code>
number of orders in Boston after 2/3/2013:	2	<code>=COUNTIFS(G2:G25,"=Boston",B2:B25,"&gt;3/2/2013")</code>
number of orders between 2/3/2013 and 2/6/2013:	14	<code>=COUNTIFS(B2:B25,"&gt;=3/2/2013",B2:B25,"&lt;=6/2/2013")</code>
	sumifs	
sum of microwaves transported to NY:	25	<code>=SUMIFS(E2:E25,D2:D25,"microwave",G2:G25,"NY")</code>
sum of items transported to Pittsburgh by truck 1:	75	<code>=SUMIFS(E2:E25,G2:G25,"Pittsburgh",F2:F25,"truck 1")</code>
sum of items ordered between 2/3/2013 and 2/6/2013:	309	<code>=SUMIFS(E2:E25,B2:B25,"&gt;=3/2/2013",B2:B25,"&lt;=6/2/2013")</code>
sum of items transported to NY, Baltimore and Philadelphia:	386	<code>=SUM(SUMIFS(E2:E25,G2:G25,{"NY","Baltimore","Philadelphia"}))</code>

## Exercise-2

### Formulas

F24					
	B	C	D	E	F
	How many times total	Total price	How many times by cash	How many times by credit card	Total price by cash
1					
2	<code>COUNTIF(B16:B241,A2)</code>	<code>SUMIF(B16:B241,A2,E16:E241)</code>	<code>COUNTIFS(D16:D241,"cash",B16:B241,A2)</code>	<code>COUNTIFS(D16:D241,"credit card",B16:B241,A2)</code>	<code>SUMIFS(E16:E241,D16:D241,"cash",B16:B241,A2)</code>
3	<code>COUNTIF(B16:B241,A3)</code>	<code>SUMIF(B16:B241,A3,E16:E241)</code>	<code>COUNTIFS(D16:D241,"cash",B16:B241,A3)</code>	<code>COUNTIFS(D16:D241,"credit card",B16:B241,A3)</code>	<code>SUMIFS(E16:E241,D16:D241,"cash",B16:B241,A3)</code>
4	<code>COUNTIF(B16:B241,A4)</code>	<code>SUMIF(B16:B241,A4,E16:E241)</code>	<code>COUNTIFS(D16:D241,"cash",B16:B241,A4)</code>	<code>COUNTIFS(D16:D241,"credit card",B16:B241,A4)</code>	<code>SUMIFS(E16:E241,D16:D241,"cash",B16:B241,A4)</code>
5	<code>COUNTIF(B16:B241,A5)</code>	<code>SUMIF(B16:B241,A5,E16:E241)</code>	<code>COUNTIFS(D16:D241,"cash",B16:B241,A5)</code>	<code>COUNTIFS(D16:D241,"credit card",B16:B241,A5)</code>	<code>SUMIFS(E16:E241,D16:D241,"cash",B16:B241,A5)</code>
6					
7					
	How many times total	Total price	How many times Shaving	How many times Kids	Sum of price for Shaving between 5/10/2013 and 5/20/2013
8					
9	<code>COUNTIF(C16:C241,A9)</code>	<code>SUMIF(C16:C241,A9,E16:E241)</code>	<code>COUNTIFS(C16:C241,A9,B16:B241,"Shaving")</code>	<code>COUNTIFS(C16:C241,A9,B16:B241,"Kids")</code>	<code>SUMIFS(E16:E241,A16:A241,"&gt;=10/5/2013",A16:A241,"&lt;=20/5/2013",B16:B241,"Shaving",C16:C241,A9)</code>
10	<code>COUNTIF(C16:C241,A10)</code>	<code>SUMIF(C16:C241,A10,E16:E241)</code>	<code>COUNTIFS(C16:C241,A10,B16:B241,"Shaving")</code>	<code>COUNTIFS(C16:C241,A10,B16:B241,"Kids")</code>	<code>SUMIFS(E16:E241,A16:A241,"&gt;=10/5/2013",A16:A241,"&lt;=20/5/2013",B16:B241,"Shaving",C16:C241,A10)</code>
11	<code>COUNTIF(C16:C241,A11)</code>	<code>SUMIF(C16:C241,A11,E16:E241)</code>	<code>COUNTIFS(C16:C241,A11,B16:B241,"Shaving")</code>	<code>COUNTIFS(C16:C241,A11,B16:B241,"Kids")</code>	<code>SUMIFS(E16:E241,A16:A241,"&gt;=10/5/2013",A16:A241,"&lt;=20/5/2013",B16:B241,"Shaving",C16:C241,A11)</code>
12					
13					
14	Summary May 2013				
15	Service	Stylist name	Payment	Price	
16	Shaving	Jane	cash	\$ 7.00	
17	Shaving	Martha	credit card	\$ 7.00	
18	Shaving	Lucy	cash	\$ 7.00	
19	Washing and combing	Alex	cash	\$ 60.00	
20	Dyeing	Alex	credit card	\$ 33.00	
21	All service	Rachel	cash	\$ 67.00	
22	Meeting hairstyles	Lucy	cash	\$ 33.00	
23	Shaving	Ashley	cash	\$ 7.00	
24	Shaving	Ashley	credit card	\$ 7.00	

## Solution

Clipboard		Font		Alignment		Number	
J14							
	A	B	C	D	E	F	G
1	Service	How many times total	Total price	How many times by cash	How many times by credit card	Total price by cash	
2	Shaving	71	717	42	29	414	
3	Washing and combing	46	1934	31	15	1350	
4	Dyeing	50	1650	35	15	1155	
5	Meeting hairstyles	32	1119	21	11	735	
6							
7							
8	Stylist name	How many times total	Total price	How many times Shaving	How many times Kids	Sum of price for Shaving between 5/10/2013 and 5/20/2013	
9	Jane	25	688	7	1	31	
10	Martha	31	965	8	1	24	
11	Alex	23	701	5	1	38	
12							
13							
14	<b>Summary May 2013</b>						
15	Date	Service	Stylist name	Payment	Price		
16	01/05/2013	Shaving	Jane	cash	\$ 7.00		
17	01/05/2013	Shaving	Martha	credit card	\$ 7.00		
18	01/05/2013	Shaving	Lucy	cash	\$ 7.00		
19							
20							

Ready