

Unit IV

- **Spreadsheets**

If condition

- **Check whether a condition is met, and returns one value if TRUE and another value if False**

```
=IF(logical_test, [value_if_true], [value_if_false])
```

If condition

<i>f_x</i>	=IF(C2="Yes",1,2)	
	C	D
	Active?	Activity Code
	Yes	1

- =IF(C2="Yes",1,2)

In the above example, cell D2 says: *IF(C2 = Yes, then return a 1, otherwise return a 2)*

If condition

	A	B	C	D	E
1	Name	Type 1	Total	Grass Type	
2	Bulbasaur	Grass	318		
3	Ivysaur	Grass	405		
4	Venusaur	Grass	525		
5	Charmander	Fire	309		
6	Charmeleon	Fire	405		
7	Charizard	Fire	534		
8	Squirtle	Water	314		
9	Wartortle	Water	405		
10	Blastoise	Water	530		
11					

	A	B	C	D	E	F	G
1	Name	Type 1	Total	Grass Type			
2	Bulbasaur	Grass	318	=IF(B2="Grass"; "Yes"; "No")			
3	Ivysaur	Grass	405	IF (logical_test; [value_if_true]; [value_if_false])			
4	Venusaur	Grass	525				
5	Charmander	Fire	309				
6	Charmeleon	Fire	405				
7	Charizard	Fire	534				
8	Squirtle	Water	314				
9	Wartortle	Water	405				
10	Blastoise	Water	530				
11							

If condition

	A	B	C	D	E
1	Name	Type 1	Total	Grass Type	
2	Bulbasaur	Grass	318	Yes	
3	Ivysaur	Grass	405	Yes	
4	Venusaur	Grass	525	Yes	
5	Charmander	Fire	309	No	
6	Charmeleon	Fire	405	No	
7	Charizard	Fire	534	No	
8	Squirtle	Water	314	No	
9	Wartortle	Water	405	No	
10	Blastoise	Water	530	No	
11					

COUNTIF

- Counts a number of cell within a range that meet the given condition

Q2							
	P	Q	R	S	T	U	V
1							
2	Yes	3					
3	Yes						
4	No						
5	No						
6	Yes						
7							

COUNTIF

J3							
=COUNTIF(E3:E14,"AA")							
	A	B	C	D	E	J	K
1							
2						Count	
3		a	5		AA	3	
4		b	4		AB	3	
5		c	3		BB	3	
6		d	5		AA		
7		e	4		AB		
8		f	3		BB		
9		g	5		AA		
10		h	4		AB		
11		i	3		BB		
12		j	2		BC		
13		k	1		CC		
14		l	0		FF		

ROUND

=rou



ROUND



ROUNDDOWN



ROUNDUP



MROUND

Rounds a number to a specified number of digits

ROUND

ROUND(number, num_digits)

The ROUND function syntax has the following arguments:

- **number** Required. The number that you want to round.
- **num_digits** Required. The number of digits to which you want to round the number argument.

ROUND

Formula	Description	Result
=ROUND(2.15, 1)	Rounds 2.15 to one decimal place	2.2