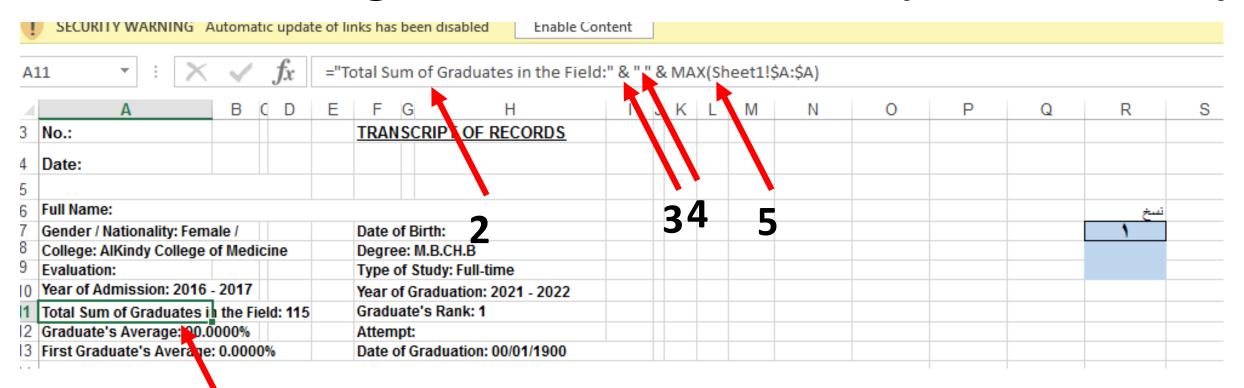
Expertizing some Excel formulas

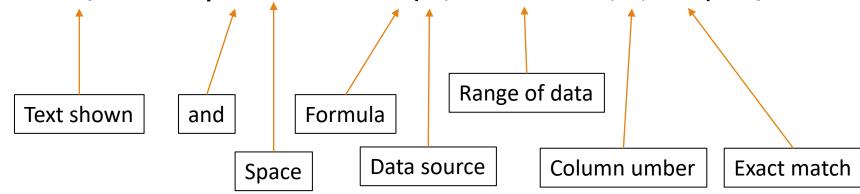
Start with MAX formula

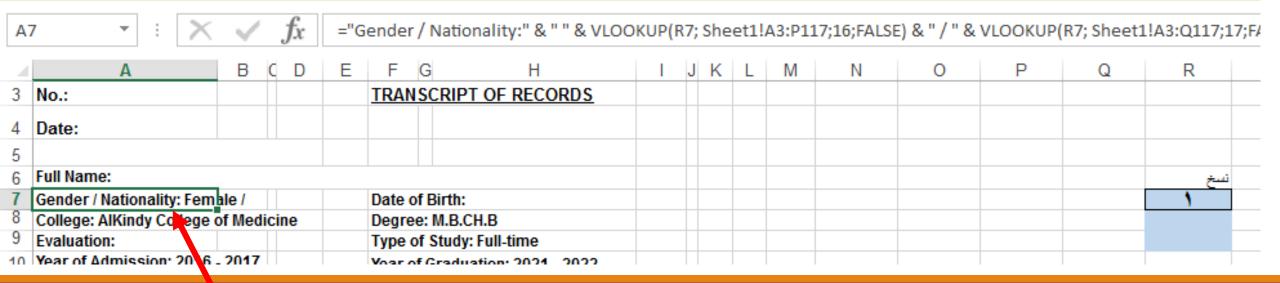
="Total sum of graduates" & " " & MAX(Sheet1!\$A:\$A)



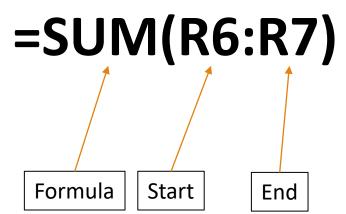
VLOOKUP formula

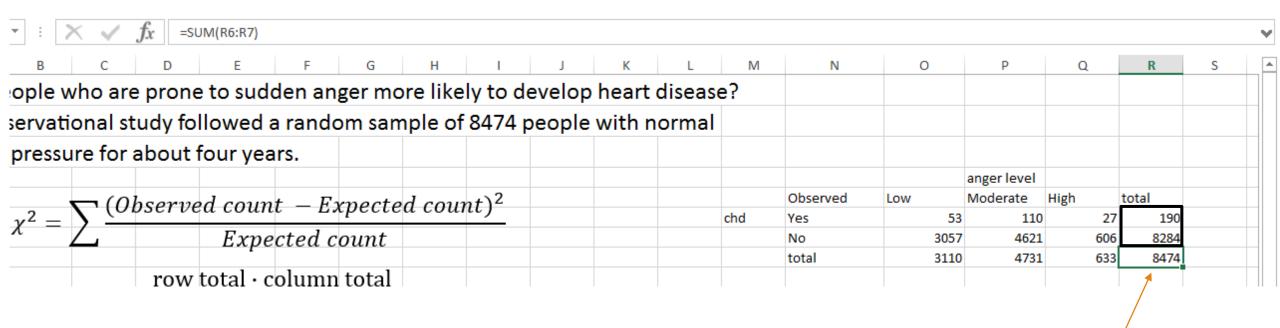
="Gender / Nationality:" & " " & VLOOKUP(R7;Sheet1!A3:P117;16;FALSE) & " / " & VLOOKUP(R7;Sheet1!A3:Q117;17;FALSE

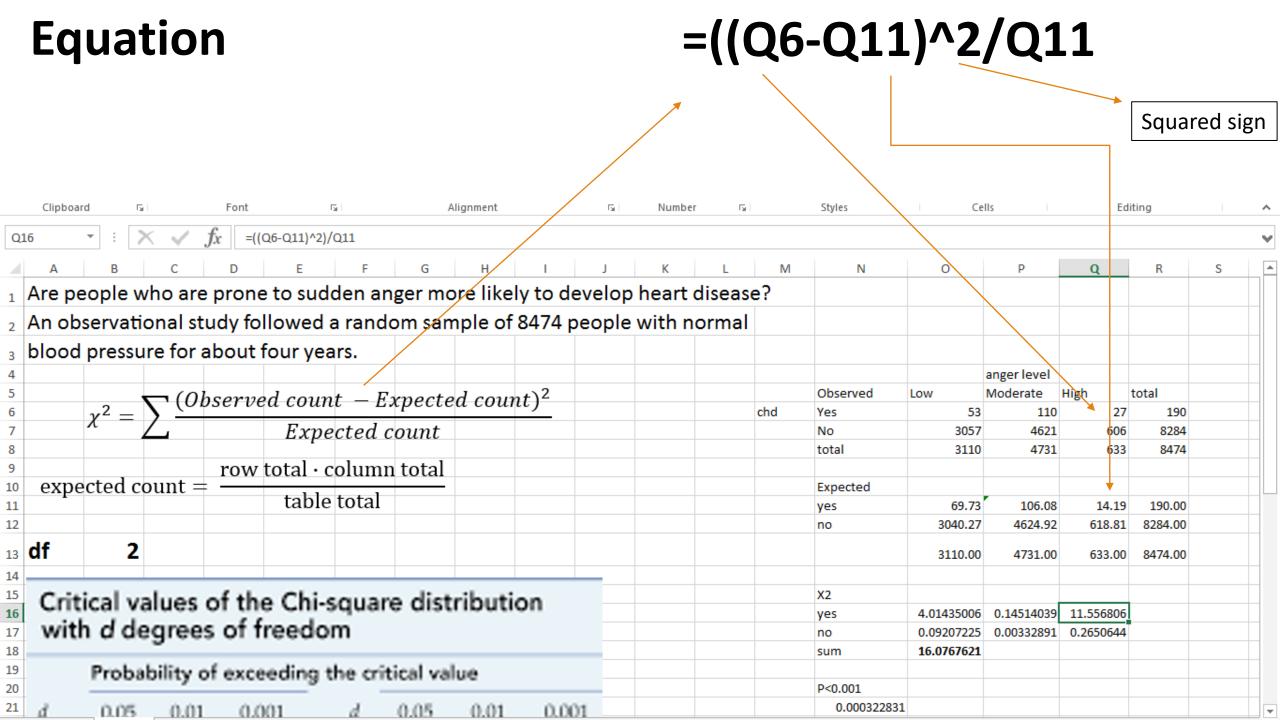


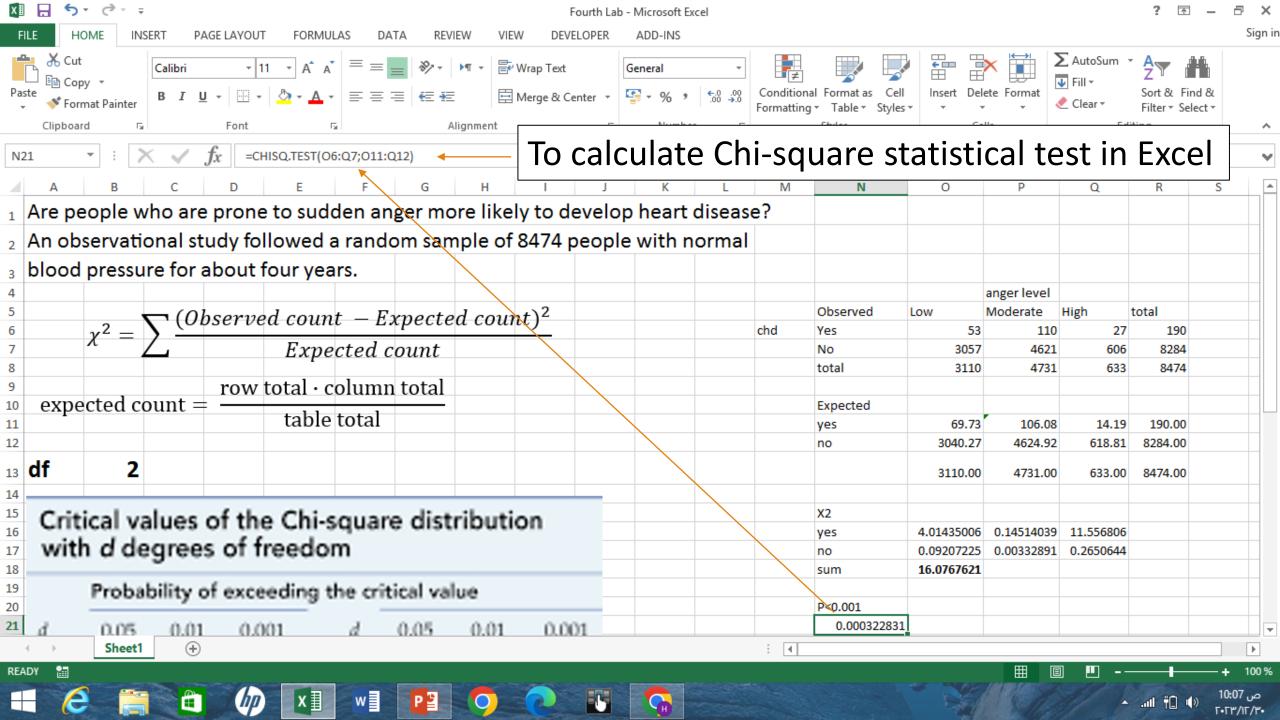


SUM formula

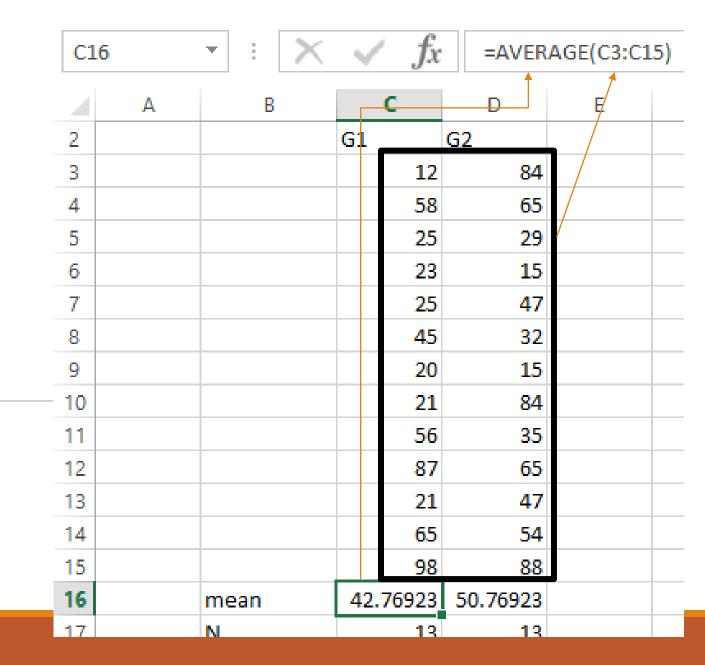




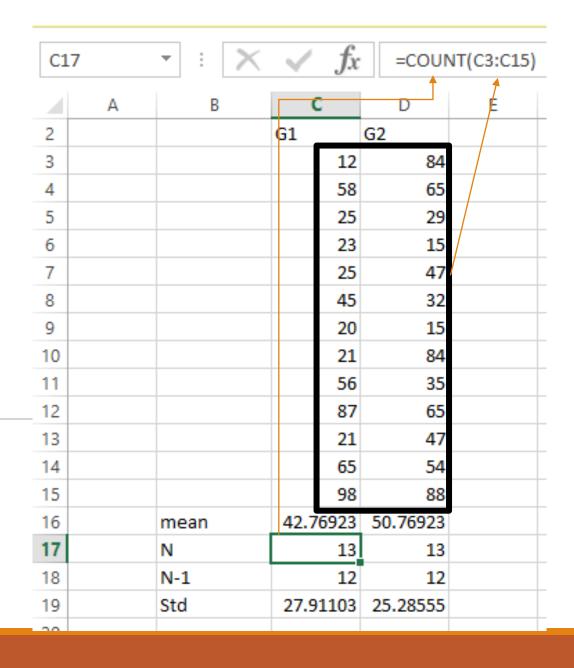




Average formula



To calculate number of data



To calculate Standard Deviation of the data

A standard deviation (or σ) is a measure of how dispersed the data is in relation to the mean. Low, or small, standard deviation indicates data are clustered tightly around the mean, and high, or large, standard deviation indicates data are more spread out.

С	19	- :	X	\checkmark	f_x	=STDE	V(C3:C15)
	Α	В		С		D	E
2				G1		G2	
3					12	84	
4					58	65	
5					25	29	
6					23	15	
7					25	47	
8					45	32	
9					20	15	
10					21	84	
- 11					56	35	
12					87	65	
13					21	47	
14					65	54	
15					98	88	
16		mean		42.7	6923	50.76923	
17		N			13	13	
18		N-1		12		12	
19		Std		27.9	1103	25.28555	
20							

To calculate Variance

N O P Q

variance= (Sum(xi-x')^2)/N-1

The term variance refers to a statistical measurement of the spread between numbers in a data set

		i							
H18 \rightarrow : \times \checkmark f_x =VAR(C3:C15)									
4	Α	В	С	D	E	F	G	Н	-
2			G1	G2			xi-x' (G1)	(xi-x')^2	
3			1	2 84			-30.76923077	946.7456	i
4			5	8 65			15.23076923	231.9763	
5			2	5 29			-17.76923077	315.7456	í
6			2	3 15			-19.76923077	390.8225	,
7			2	5 47			-17.76923077	315.7456	i
8			4	5 32			2.230769231	4.976331	
9			2	0 15			-22.76923077	518.4379)
10			2	1 84			-21.76923077	473.8994	,
11			5	6 35			13.23076923	175.0533	i
12			8	7 65			44.23076923	1956.361	
13			2	1 47			-21,76923077	473.8994	,
14			6	5 54			22.23076923	494.2071	
15			9	88 88			55.23076923	3050.438	1
16		mean	42.7692	3 50.76923			Sum	9348.308	i
17		N	1	3 13			Variance	779.0256	Ma
18		N-1	1	2 12			Var. from formula	779.0256	
19		Std	27.9110	3 25.28555					Ī

Calculate variance using equation?

To calculate Correlation

Correlation = Covariance/(std(G1)*std(G2))

G

(xi-x')^2

231.9763

390.8225

315.7456

473.8994

494.2071

3050,438

9348.308 779.0256 M

779.0256

0.330835 m

0.358404 fc

-30.76923077 946.7456

-17.76923077 315.7456

2.230769231 4.976331 -22.76923077 518.4379

13.23076923 175.0533

44.23076923 1956.361 -21.76923077 473.8994

15.23076923

-19.76923077 -17.76923077

-21.76923077

22.23076923

55.23076923

xi-x' (G1)

Sum

Variance

Correlation

Correlation

Var. from formula

=CORREL((C3:C15);(D3:D15))

In statistics, correlation or dependence is any statistical relationship, whether causal or not, between two random variables

\mathcal{A}	Α	В		C	D	E
2			G1		G2	
3				12	84	
4				58	65	
5				25	29	
6				23	15	
7				25	47	
8				45	32	
9				20	15	
10				21	84	
11				56	35	
12				87	65	
13				21	47	
14				65	54	
15				98	88	
16		mean	42	.76923	50.76923	
17		N		13	13	

12

27.91103 25.28555

12

Calculate correlation using equations?

Covariance formula in excel = covar(C3:c15);(d3:d15))

18

19

20

N-1

Std

H22