

# Correlation

A	B	C	D	E	F	G	H
Exercise	Self Estm	x-x	y-y	(x-x)(y-y)	(x-x) <sup>2</sup>	(y-y) <sup>2</sup>	
10	25	-1.43333	-1.13333	1.624444444	2.054444	1.284444	
33	37	21.56667	10.86667	234.3577778	465.1211	118.0844	
9	12	-2.43333	-14.1333	34.39111111	5.921111	199.7511	
14	32	2.566667	5.866667	15.05777778	6.587778	34.41778	
3	22	-8.43333	-4.13333	34.85777778	71.12111	17.08444	
12	31	0.566667	4.866667	2.757777778	0.321111	23.68444	
7	30	-4.43333	3.866667	-17.14222222	19.65444	14.95111	
15	30	3.566667	3.866667	13.79111111	12.72111	14.95111	
3	15	-8.43333	-11.1333	93.89111111	71.12111	123.9511	
21	34	9.566667	7.866667	75.25777778	91.52111	61.88444	
2	18	-9.43333	-8.13333	76.72444444	88.98778	66.15111	
20	37	8.566667	10.86667	93.09111111	73.38778	118.0844	
4	19	-7.43333	-7.13333	53.02444444	55.25444	50.88444	
8	33	-3.43333	6.866667	-23.57555556	11.78778	47.15111	
0	10	-11.4333	-16.1333	184.4577778	130.7211	260.2844	
17	35	5.566667	8.866667	49.35777778	30.98778	78.61778	
25	39	13.56667	12.86667	174.5577778	184.0544	165.5511	
2	13	-9.43333	-13.1333	123.8911111	88.98778	172.4844	
18	35	6.566667	8.866667	58.22444444	43.12111	78.61778	
3	15	-8.43333	-11.1333	93.89111111	71.12111	123.9511	
27	35	15.56667	8.866667	138.0244444	242.3211	78.61778	
4	17	-7.43333	-9.13333	67.89111111	55.25444	83.41778	
8	20	-3.43333	-6.13333	21.05777778	11.78778	37.61778	
10	22	-1.43333	-4.13333	5.924444444	2.054444	17.08444	
0	14	-11.4333	-12.1333	138.7244444	130.7211	147.2178	
12	35	0.566667	8.866667	5.024444444	0.321111	78.61778	
5	20	-6.43333	-6.13333	39.45777778	41.38778	37.61778	
7	29	-4.43333	2.866667	-12.70888889	19.65444	8.217778	
30	40	18.56667	13.86667	257.4577778	344.7211	192.2844	
14	30	2.566667	3.866667	9.924444444	6.587778	14.95111	
				2043.266667	2379.367	2467.467	
31							
32	total						
33	Mean	11.43333	26.13333				
34							
35	r			0.843274			

17m...

A	B	C	D	E	F	G	H
Exercise	Self Estim	x-x	y-y	(x-x)(y-y)	(x-x) <sup>2</sup>	(y-y) <sup>2</sup>	
10	25	=B2-\$B\$33	=C2-\$C\$33	=D2*E2	=D2^2	=E2^2	
33	37	=B3-\$B\$33	=C3-\$C\$33	=D3*E3	=D3^2	=E3^2	
9	12	=B4-\$B\$33	=C4-\$C\$33	=D4*E4	=D4^2	=E4^2	
14	32	=B5-\$B\$33	=C5-\$C\$33	=D5*E5	=D5^2	=E5^2	
3	22	=B6-\$B\$33	=C6-\$C\$33	=D6*E6	=D6^2	=E6^2	
12	31	=B7-\$B\$33	=C7-\$C\$33	=D7*E7	=D7^2	=E7^2	
7	30	=B8-\$B\$33	=C8-\$C\$33	=D8*E8	=D8^2	=E8^2	
15	30	=B9-\$B\$33	=C9-\$C\$33	=D9*E9	=D9^2	=E9^2	
3	15	=B10-\$B\$33	=C10-\$C\$33	=D10*E10	=D10^2	=E10^2	
21	34	=B11-\$B\$33	=C11-\$C\$33	=D11*E11	=D11^2	=E11^2	
2	18	=B12-\$B\$33	=C12-\$C\$33	=D12*E12	=D12^2	=E12^2	
20	37	=B13-\$B\$33	=C13-\$C\$33	=D13*E13	=D13^2	=E13^2	
4	19	=B14-\$B\$33	=C14-\$C\$33	=D14*E14	=D14^2	=E14^2	
8	33	=B15-\$B\$33	=C15-\$C\$33	=D15*E15	=D15^2	=E15^2	
0	10	=B16-\$B\$33	=C16-\$C\$33	=D16*E16	=D16^2	=E16^2	
17	35	=B17-\$B\$33	=C17-\$C\$33	=D17*E17	=D17^2	=E17^2	
25	39	=B18-\$B\$33	=C18-\$C\$33	=D18*E18	=D18^2	=E18^2	
2	13	=B19-\$B\$33	=C19-\$C\$33	=D19*E19	=D19^2	=E19^2	
18	35	=B20-\$B\$33	=C20-\$C\$33	=D20*E20	=D20^2	=E20^2	
3	15	=B21-\$B\$33	=C21-\$C\$33	=D21*E21	=D21^2	=E21^2	
27	35	=B22-\$B\$33	=C22-\$C\$33	=D22*E22	=D22^2	=E22^2	
4	17	=B23-\$B\$33	=C23-\$C\$33	=D23*E23	=D23^2	=E23^2	
8	20	=B24-\$B\$33	=C24-\$C\$33	=D24*E24	=D24^2	=E24^2	
10	22	=B25-\$B\$33	=C25-\$C\$33	=D25*E25	=D25^2	=E25^2	
0	14	=B26-\$B\$33	=C26-\$C\$33	=D26*E26	=D26^2	=E26^2	
12	35	=B27-\$B\$33	=C27-\$C\$33	=D27*E27	=D27^2	=E27^2	
5	20	=B28-\$B\$33	=C28-\$C\$33	=D28*E28	=D28^2	=E28^2	
7	29	=B29-\$B\$33	=C29-\$C\$33	=D29*E29	=D29^2	=E29^2	
30	40	=B30-\$B\$33	=C30-\$C\$33	=D30*E30	=D30^2	=E30^2	
14	30	=B31-\$B\$33	=C31-\$C\$33	=D31*E31	=D31^2	=E31^2	
total				=SUM(F2:F31)	=SUM(G2:G31)	=SUM(H2:H31)	
Mean	=AVERAGE(B2:B31)	=AVERAGE(C2:C31)					
r	=F32/SQRT(G32*H32)						

21  
22  
23  
24  
25