

Foundations of the Course

1. Students know enough algebra, they don't need advanced skills with letter manipulation.
2. Students need to be able to interpret and explain their equations, charts, tables, and graphs.
3. Students need to calculate with something other than a graphing calculator.
4. Approximately 80% of BSU grads need at least one Statistics course, They need a foundation.

Correlation versus Causation

Physics professor: Ice Cream Cones and Thunder Storms

Strong Correlation

??????

Location	Year	Term	Name	Age (year)	Height (cm)	Shoe Size	Sex (L,M)	Foot Length (cm)	Forearm (cm)	Academic Status	Favorite M&M Color	No. of Siblings	Miles from home to school	Birthday	Amount of last haircut
BSU	2012	Spring	Amanda	20	163.53	9	female	24.7	27.23	junior	yellow	2	1	2-Feb-1991	13
BSU	2012	Spring	Kristina	20	167.21	10	female	25.2	29	freshmen	green	1	1	#####	8.99
BSU	2012	Spring	Samantha	19	160.89	7	female	23.8	25	junior	red	9	0	9-Aug-1992	15
BSU	2012	Spring	Matthew	26	180.34	11	Male	27.9	27.8	junior	Blue	4	3	23-Feb-1985	16
BSU	2012	Spring	Dustin	20	190.1	14	Male	30.1	32.1	Sophomore	Blue	4	1	25-Oct-1991	0
BSU	2012	Spring	Kim	46	174.19	11	female	26.4	28.5	junior	red	9	15	2-Oct-1965	14
BSU	2012	Spring	Zach	18	180.81	10	male	26.3	29.5	freshmen	blue	2	1	14/05/1993	0
BSU	2012	Spring	Amber	17	159.31	7	female	23.1	24.25	psco	red	3	60	10-Oct-1994	23
BSU	2012	Spring	Andrew	49	157.51	8.5	male	24.9	28.5	junior	red	1	5	2-Jan-1962	13
BSU	2012	Spring	Andrew	20	178.69	10	male	26.6	26.51	sophomore	green	2	1	29/10/91	14
BSU	2012	Spring	Mark	18	162.91	11	Male	26.4	28.21	freshmen	Orange	2	1	24/09/93	17
BSU	2012	Spring	Jocelyn	19	166.1	8.5	female	24.9	28.75	Sophomore	Blue	2	40	21/7/1992	16
BSU	2012	Spring	Allison	18	172.11	10	female	26.2	28.5	freshmen	green	3	200	5-Sep-1993	25
BSU	2012	Spring	Alexandria	19	159.2	8	Female	23.2	25.5	freshmen	green	6	1	21-Oct-1992	25
BSU	2012	Spring	Matthew	21	183.09	12	Male	27	30.06	Senior	Green	4	1	30-Aug-1990	0
BSU	2012	Spring	Dena	19	169.1	8.5	female	24.8	26	freshman	orange	2	1	9-Sep-1992	5
BSU	2012	Spring	Evelyn	57	162	9	female	25.4	27.43	Senior	brown	8	1.5	30-Jan-1953	0
BSU	2012	Spring	Todd	19	182.8	13	male	32.32	34.57	freshmen	green	2	1	23-Nov-1992	0
BSU	2012	Spring	Riley	18	173.11	10	male	26.7	29.5	freshmen	blue	3	1	6-Jun-1993	0
BSU	2012	Spring	Tom	22	180.89	11	male	28	30	senior	red	5	1	20/06/1989	11.99

Correlatio

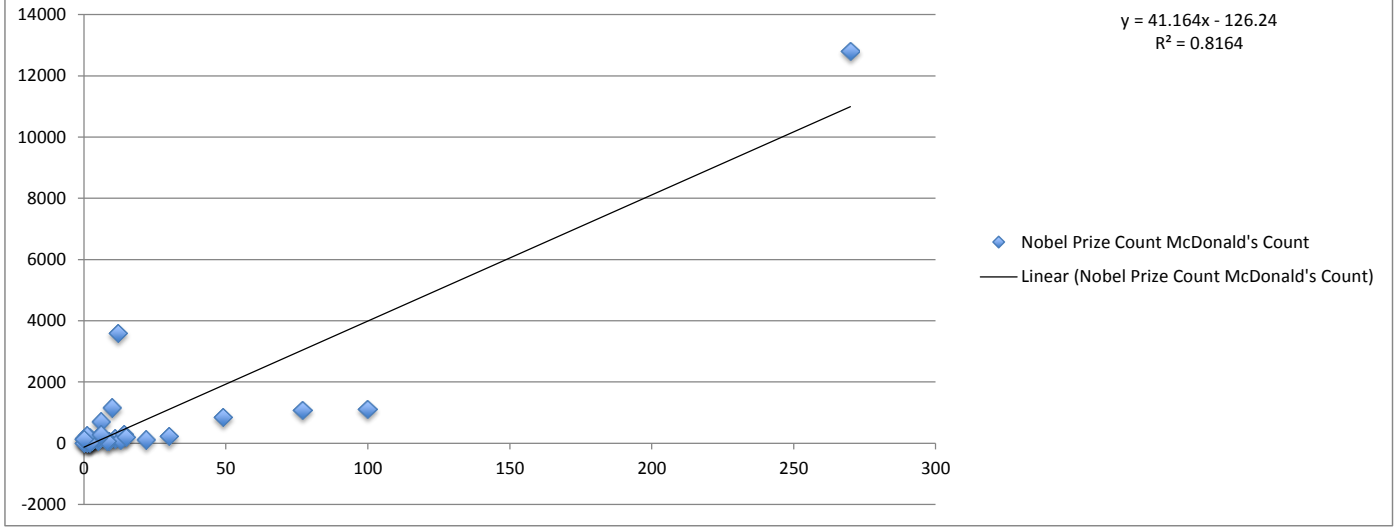
Variable 1	Variable 2	r	Type
Age	Height	-0.29746	Weak
Age	Shoe Size	-0.06428	NO
Height	Shoe Size	0.912479	Strong

Country	Nobel Prize C	McDonald's Count
Australia	6	701
Austria	11	148
Belgium	9	64
Canada	10	1154
Czech Republ	2	60
Denmark	13	99
Finland	2	93
France	49	857
Germany	77	1091
Greece	2	48
Hungary	3	76
Iceland	1	3
Ireland	5	62
Italy	14	290
Japan	12	3598
Luxembourg	0	6
Mexico	2	205
Netherlands	15	205
New Zealand	0	149
Norway	8	55
Poland	5	181
Portugal	2	91
Slovakia	2	10
South Korea	1	243
Spain	6	276
Sweden	30	227
Switzerland	22	119
Turkey	0	133
United Kingdc	100	1115
United States	270	12804

Correlation Coefficient Type
0.903556 Strong

State a possible "lurking" variable

Nobel Prize Count McDonald's Count



Correlation Coefficient
0.3491335

