Regression Analysis

Regression Equation

Final Score (%) = 92.881 - 0.00381 Min. of Study

Model Summary

S	R-sq	R-sq(adj)	R-sq(pred)
4.67275	2.49%	1.29%	0.00%

Analysis of Variance

Source	DF	SS	MS	F	P
Regression	1	45.24	45.2436	2.07	0.154
Error	81	1768.60	21.8346		
Total	82	1813.84			

Analysis of Variance

Source	DF	Adj SS	Adj MS	F-Value	P-Value
Regression	1	45.24	45.24	2.07	0.154
Min. of Study	1	45.24	45.24	2.07	0.154
Error	81	1768.60	21.83		
Lack-of-Fit	42	1076.84	25.64	1.45	0.124
Pure Error	39	691.76	17.74		
Total	82	1813.84			

Fits and Diagnostics for Unusual Observations

Obs	Final Score (%)	Fit	Resid	Std Resid	
6	81.15	91.97	-10.82	-2.33	R
7	80.85	92.54	-11.69	-2.52	R
16	80.85	92.88	-12.03	-2.61	R
37	85.05	89.34	-4.29	-1.01	X
56	89.50	90.06	-0.56	-0.13	X
62	94.05	90.35	3.70	0.83	X
75	81.85	92.40	-10.55	-2.27	R

R Large residual
X Unusual X

Min. of Study	Final Score (%)
120	95.6
180	95
0	95.1
330	98.35
0	93.3
240	81.15
90	80.85
330	93.8
0	97.5
120	92.1
0	91.25
0	94.05
0	95.8
0	96.95
210	94.7
0	80.85
0	97.3
0	91.55
360	94
120	93.85
240	97.85
0	97.15

210	95.15
0	96.8
370	91.65
150	91.8
270	85.9
315	97.15
190	91.35
270	92.5
165	98.5
0	95.65
150	88.55
285	92.35
30	91.3
150	87.05
930	85.05
200	88.45
190	85.2
240	94.55
625	97.3
635	97.6
210	97.2
510	90.65
425	85.4
410	84.55
350	94.45

330	88.35
120	86.95
225	88.45
105	93.25
185	95.2
445	86.85
0	96.55
0	96.85
740	89.5
290	94.9
185	93
85	88.45
390	91.7
495	94.6
665	94.05
200	83.95
450	84.75
140	90.9
70	98.35
85	93.85
40	95.3
120	91.25
155	87.35
500	93.3
85	95.45

120	84.2
0	92.75
125	81.85
390	87.35
40	98.15
365	98.65
35	90.7
120	93.25
0	96.8
85	88.25
175	94.4

Descriptive Statistics

Statistics

Variable	N	N*	Mean	SE Mean	StDev	Minimum	Q1	Median	Q3	Maximum
Min. of Study	83	0	207.0	21.4	194.8	0.0	40.0	165.0	330.0	930.0
Final Score (%)	83	0	92.092	0.516	4.703	80.850	88.450	93.250	95.600	98.650

Method of Collection
Sample: Every students in the four classes of NTCS-A Manager's Course at Dam Neck, Virginia (apparently, seems like a census for just NTCS-A Manager's Cource student; direct control).

How sample was obtained: Just include "everyone." It's a census of every students in this specific four classes of NTCS-A Manager's Course.

Sample size: Four classes, 83 students; whole population.

Population: The entire sample

The Purpose
The purpose of this study is to determine the correlation between extra time of studying after school and the final percentage grade earned by the students in NTCS-A Manager's Course located in Dam Neck, Virginia. This study was conducted to see if there were any effective ways to teach and prepare students to be productive crew members of the United State Naval vessel.

"Since the Navy spends huge amounts of time and money on training, it might be helpful for them to learn about relationships that may exist between homework and grades. This could allow them to maximize the money being spent on training and increase the readiness of their people." It may also "be used to improve the way school is taught and assure that the newly graduated students are better prepared when they return to the fleet."