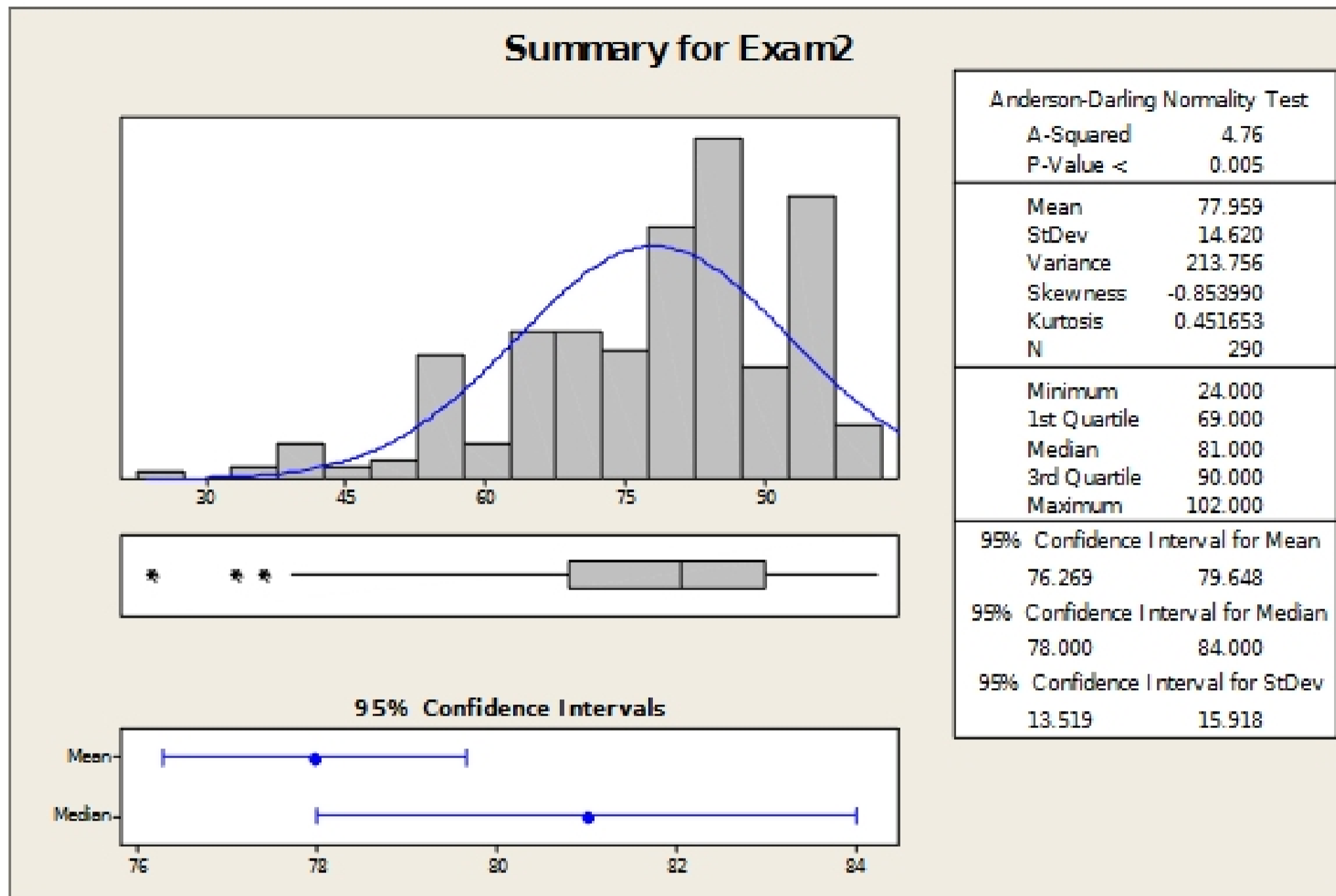
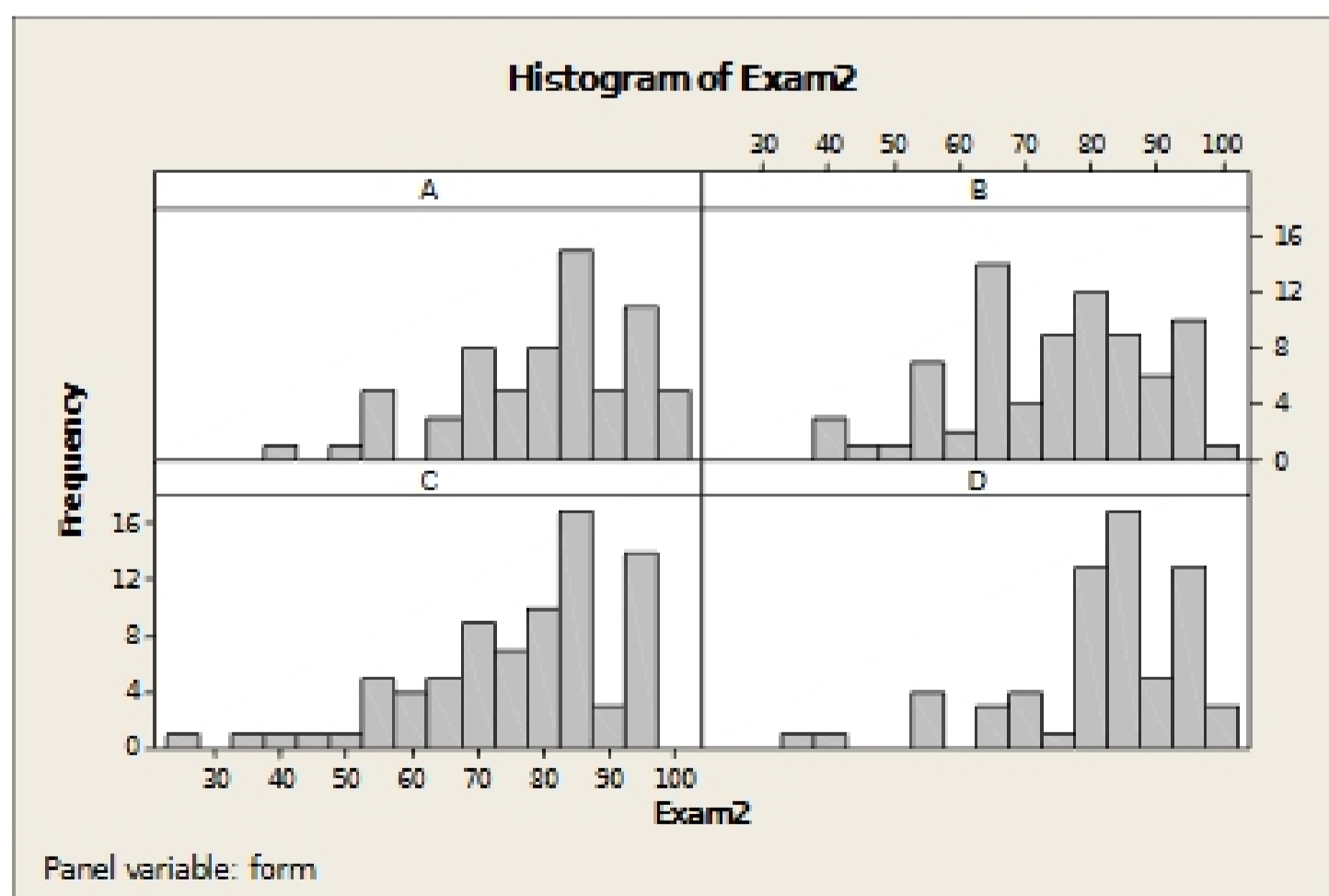


# Exam 2 Results

## STA 3024 Fall2010



Differences among the 4 Test Forms?



### One-way ANOVA: Exam2 versus form

Source	DF	SS	MS	F	P
form	3	2960	987	4.80	0.003
Error	298	61190	205		
Total	301	64149			

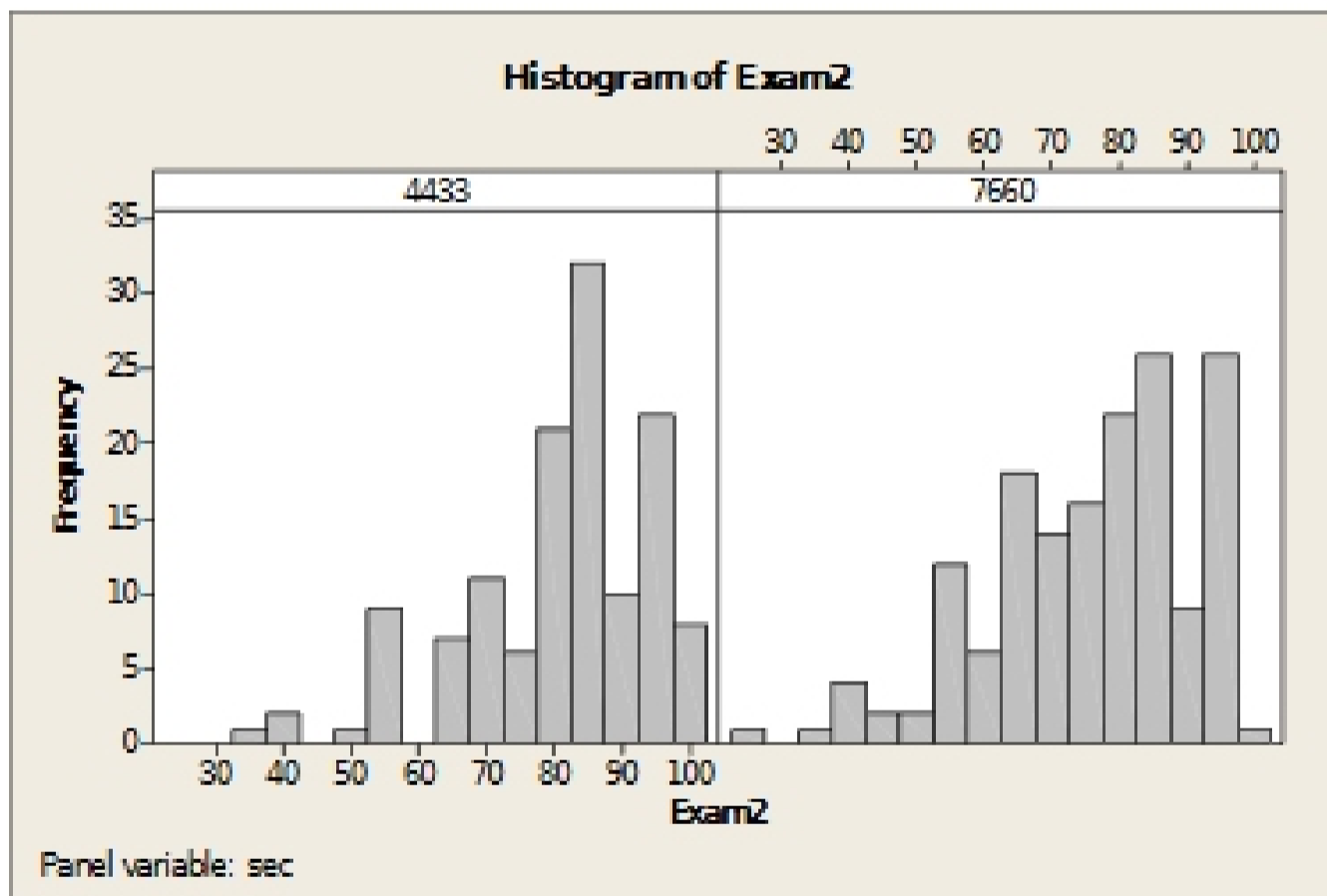
S = 14.33    R-Sq = 4.61%    R-Sq(adj) = 3.65%

Level	N	Mean	StDev	Individual 95% CIs For Mean Based on Pooled StDev
A	71	79.86	13.78	(-----*-----)
B	81	74.04	14.48	(-----*-----)
C	83	75.76	15.30	(-----*-----)
D	67	81.99	13.44	(-----*-----)

-----+-----+-----+-----+-----  
72.0      76.0      80.0      84.0

Pooled StDev = 14.33

Differences between the 2 sections?



### Two-Sample T-Test and CI: Exam2, sec

Two-sample T for Exam2

sec	N	Mean	StDev	SE Mean
4433	130	80.9	13.7	1.2
7660	160	75.6	14.9	1.2

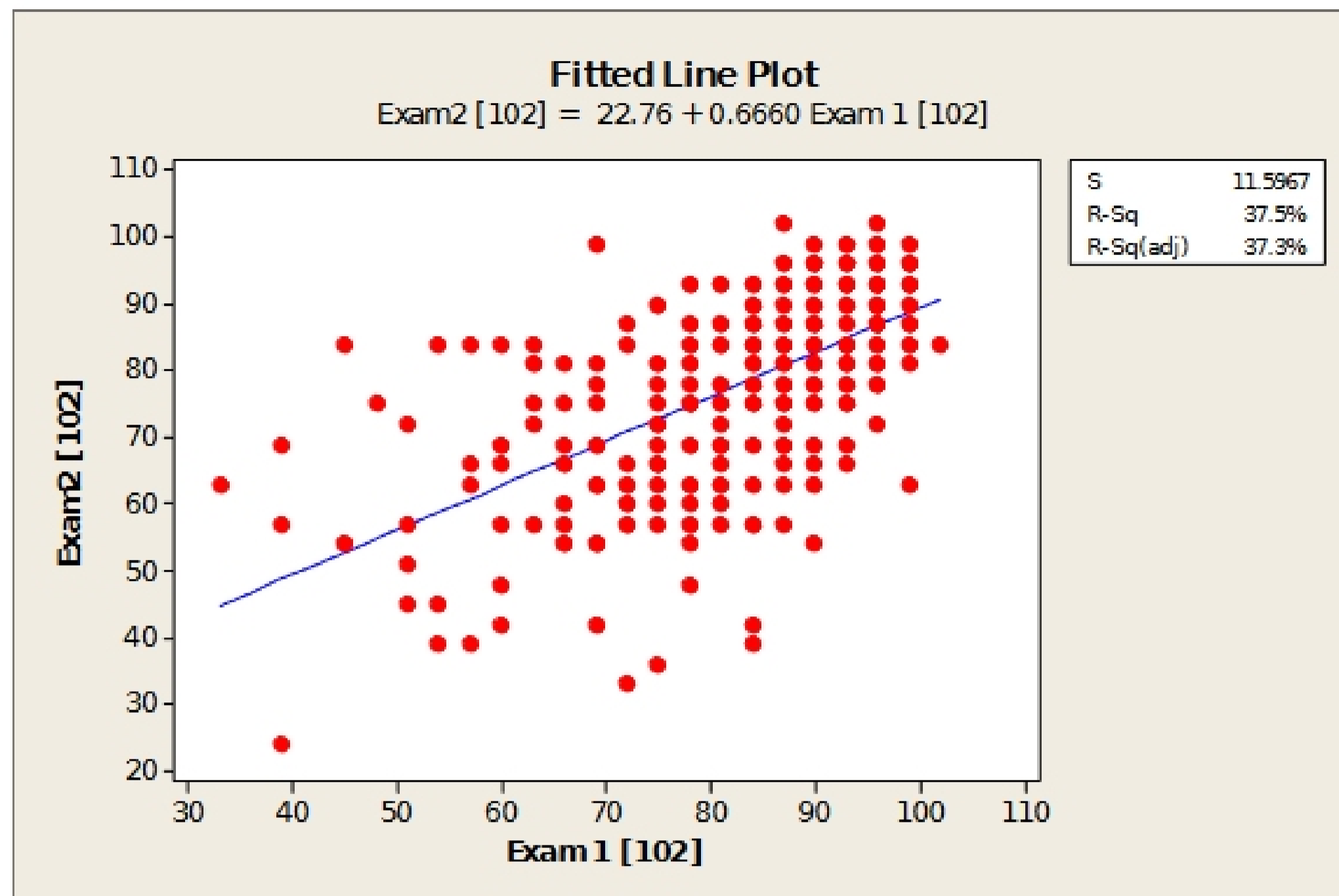
Difference = mu (4433) - mu (7660)

Estimate for difference: 5.35

95% CI for difference: (2.03, 8.66)

T-Test of difference = 0 (vs not =): T-Value = 3.17    P-Value = 0.002    DF = 283

## Comparing Exam 1 and Exam 2 scores



### Regression Analysis: Exam2 [102] versus Exam 1 [102]

The regression equation is  
Exam2 [102] = 22.76 + 0.6660 Exam 1 [102]

S = 11.5967    R-Sq = 37.5%    R-Sq(adj) = 37.3%

#### Analysis of Variance

Source	DF	SS	MS	F	P
Regression	1	24050.5	24050.5	178.84	0.000
Error	298	40076.2	134.5		
Total	299	64126.7			

### Paired T-Test and CI: Exam 1 [102], Exam2 [102]

Paired T for Exam 1 [102] - Exam2 [102]

	N	Mean	StDev	SE Mean
Exam 1 [102]	300	82.370	13.466	0.777
Exam2 [102]	300	77.620	14.645	0.846
Difference	300	4.750	12.420	0.717

95% CI for mean difference: (3.339, 6.161)

T-Test of mean difference = 0 (vs not = 0): T-Value = 6.62    P-Value = 0.000