

Two-Sample Test Report

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 Variable Weight

Descriptive Statistics Section

Variable	Count	Mean	Standard Deviation	Standard Error	95% LCL of Mean	95% UCL of Mean
Female=0	9	155	48.99235	16.33078	117.3411	192.6588
Female=1	11	127	34.99714	10.55204	103.4886	150.5114

Note: T-alpha (Female=0) = 2.3060, T-alpha (Female=1) = 2.2281

Confidence-Limits of Difference Section

Variance Assumption	DF	Mean Difference	Standard Deviation	Standard Error	95% LCL of Mean	95% UCL of Mean
Equal	18	28	41.79979	18.78761	-11.4713	67.4713
Unequal	14.11	28	60.20839	19.44325	-13.67189	69.67189

Note: T-alpha (Equal) = 2.1009, T-alpha (Unequal) = 2.1433

Equal-Variance T-Test Section

Alternative Hypothesis	T-Value	Prob Level	Decision (5%)	Power (Alpha=.05)	Power (Alpha=.01)
Difference <> 0	1.4903	0.153449	Accept Ho	0.291991	0.111561
Difference < 0	1.4903	0.923275	Accept Ho	0.001030	0.000102
Difference > 0	1.4903	0.076725	Accept Ho	0.416556	0.172136

Difference: (Female=0)-(Female=1)

Aspin-Welch Unequal-Variance Test Section

Alternative Hypothesis	T-Value	Prob Level	Decision (5%)	Power (Alpha=.05)	Power (Alpha=.01)
Difference <> 0	1.4401	0.171665	Accept Ho	0.269100	0.097234
Difference < 0	1.4401	0.914168	Accept Ho	0.001266	0.000135
Difference > 0	1.4401	0.085832	Accept Ho	0.392036	0.153752

Difference: (Female=0)-(Female=1)

Tests of Assumptions Section

Assumption	Value	Probability	Decision(5%)
Skewness Normality (Female=0)	-0.0058	0.995403	Cannot reject normality
Kurtosis Normality (Female=0)	-1.2357	0.216578	Cannot reject normality
Omnibus Normality (Female=0)	1.5269	0.466048	Cannot reject normality
Skewness Normality (Female=1)	1.1417	0.253585	Cannot reject normality
Kurtosis Normality (Female=1)	0.3728	0.709268	Cannot reject normality
Omnibus Normality (Female=1)	1.4425	0.486156	Cannot reject normality
Variance-Ratio Equal-Variance Test	1.9597	0.333910	Cannot reject equal variances
Modified-Levene Equal-Variance Test	2.1524	0.159605	Cannot reject equal variances

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Mann-Whitney U or Wilcoxon Rank-Sum Test for Difference in Medians

Variable	Mann Whitney U	W Sum Ranks	Mean of W	Std Dev of W
Female=0	67	112	94.5	13.15255
Female=1	32	98	115.5	13.15255

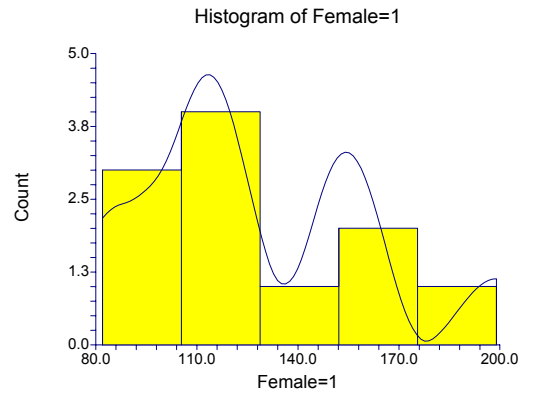
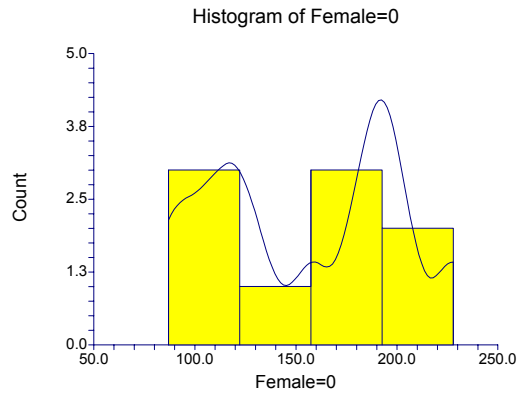
Number Sets of Ties = 2, Multiplicity Factor = 12

Alternative Hypothesis	Exact Probability		Approximation Without Correction		Approximation With Correction			
	Prob Level	Decision (5%)	Z-Value	Prob Level	Decision (5%)	Z-Value	Prob Level	Decision (5%)
Diff<>0			1.3305	0.183340	Accept Ho	1.2925	0.196175	Accept Ho
Diff<0			1.3305	0.908330	Accept Ho	1.3686	0.914431	Accept Ho
Diff>0			1.3305	0.091670	Accept Ho	1.2925	0.098088	Accept Ho

Kolmogorov-Smirnov Test For Different Distributions

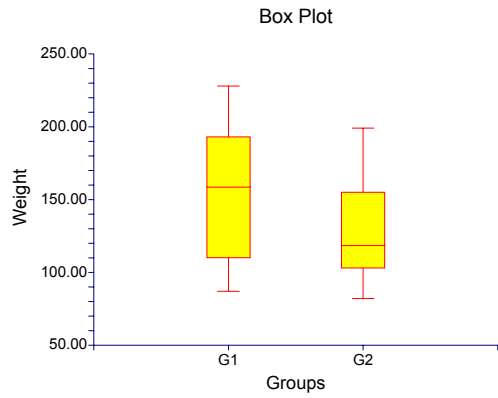
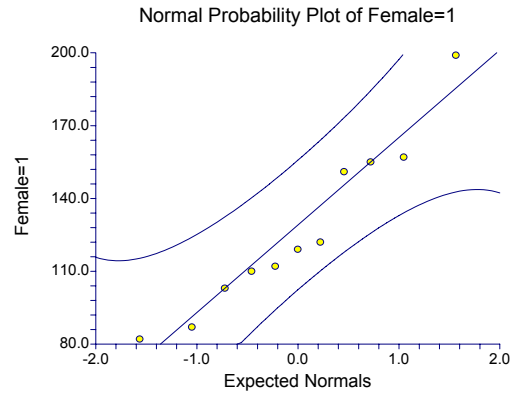
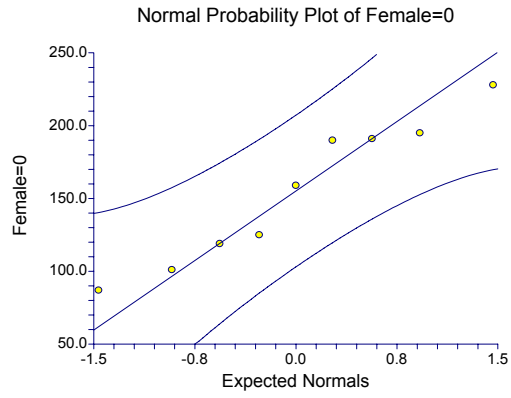
Alternative Hypothesis	Dmn Criterion Value	Reject Ho if Greater Than	Test Alpha Level	Decision (Test Alpha)	Prob Level
D(1)<>D(2)	0.464646	0.5648	.050	Accept Ho	0.1651
D(1)<D(2)	0.040404	0.5648	.025	Accept Ho	
D(1)>D(2)	0.464646	0.5648	.025	Accept Ho	

Plots Section



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Run Summary Section

Parameter	Value	Parameter	Value
Dependent Variable	Weight	Rows Processed	75
Number Ind. Variables	1	Rows Filtered Out	0
Weight Variable	None	Rows with X's Missing	55
R2	0.1098	Rows with Weight Missing	0
Adj R2	0.0604	Rows with Y Missing	0
Coefficient of Variation	0.2994	Rows Used in Estimation	20
Mean Square Error	1747.222	Sum of Weights	20.000
Square Root of MSE	41.79979	Completion Status	Normal Completion
Ave Abs Pct Error	26.563		

Descriptive Statistics Section

Variable	Count	Mean	Standard Deviation	Minimum	Maximum
Female	20	0.55	0.5104178	0	1
Weight	20	139.6	43.1221	82	228

Regression Equation Section

Independent Variable	Regression Coefficient b(i)	Standard Error Sb(i)	T-Value to test H0:B(i)=0	Prob Level	Reject H0 at 5%?	Power of Test at 5%
Intercept	155.0000	13.9333	11.124	0.0000	Yes	1.0000
Female	-28.0000	18.7876	-1.490	0.1534	No	0.2920

Estimated Model

155-28*Female

Regression Coefficient Section

Independent Variable	Regression Coefficient	Standard Error	Lower 95% C.L.	Upper 95% C.L.	Standardized Coefficient
Intercept	155.0000	13.9333	125.7273	184.2727	0.0000
Female	-28.0000	18.7876	-67.4713	11.4713	-0.3314

Note: The T-Value used to calculate these confidence limits was 2.101.

Analysis of Variance Section

Source	DF	R2	Sum of Squares	Mean Square	F-Ratio	Prob Level	Power (5%)
Intercept	1		389763.2	389763.2			
Model	1	0.1098	3880.8	3880.8	2.221	0.1534	0.2920
Error	18	0.8902	31450	1747.222			
Total(Adjusted)	19	1.0000	35330.8	1859.516			

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Analysis of Variance Detail Section

Model Term	DF	R2	Sum of Squares	Mean Square	F-Ratio	Prob Level	Power (5%)
Intercept	1		389763.2	389763.2			
Model	1	0.1098	3880.8	3880.8	2.221	0.1534	0.2920
Female	1	0.1098	3880.8	3880.8	2.221	0.1534	0.2920
Error	18	0.8902	31450	1747.222			
Total(Adjusted)	19	1.0000	35330.8	1859.516			

Normality Tests Section

Test Name	Test Value	Prob Level	Reject H0 At Alpha = 20%?
Shapiro Wilk	0.9614	0.571212	No
Anderson Darling	0.2972	0.590695	No
D'Agostino Skewness	0.4581	0.646892	No
D'Agostino Kurtosis	-0.9525	0.340853	No
D'Agostino Omnibus	1.1171	0.572049	No

Predicted Values with Confidence Limits of Means

Row	Actual Weight	Predicted Weight	Standard Error Of Predicted	95% Lower Conf. Limit Of Mean	95% Upper Conf. Limit Of Mean
1	159.000	155.000	13.933	125.727	184.273
2	155.000	127.000	12.603	100.522	153.478
3	157.000	127.000	12.603	100.522	153.478
4	125.000	155.000	13.933	125.727	184.273
5	103.000	127.000	12.603	100.522	153.478
6	122.000	127.000	12.603	100.522	153.478
7	101.000	155.000	13.933	125.727	184.273
8	82.000	127.000	12.603	100.522	153.478
9	228.000	155.000	13.933	125.727	184.273
10	199.000	127.000	12.603	100.522	153.478
11	195.000	155.000	13.933	125.727	184.273
12	110.000	127.000	12.603	100.522	153.478
13	191.000	155.000	13.933	125.727	184.273
14	151.000	127.000	12.603	100.522	153.478
15	119.000	155.000	13.933	125.727	184.273
16	119.000	127.000	12.603	100.522	153.478
17	112.000	127.000	12.603	100.522	153.478
18	87.000	127.000	12.603	100.522	153.478
19	190.000	155.000	13.933	125.727	184.273
20	87.000	155.000	13.933	125.727	184.273

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Residual Report

Row	Actual Weight	Predicted Weight	Residual	Absolute Percent Error	Sqrt(MSE) Without This Row
1	159.000	155.000	4.000	2.516	42.999
2	155.000	127.000	28.000	18.065	42.418
3	157.000	127.000	30.000	19.108	42.329
4	125.000	155.000	-30.000	24.000	42.314
5	103.000	127.000	-24.000	23.301	42.576
6	122.000	127.000	-5.000	4.098	42.993
7	101.000	155.000	-54.000	53.465	40.707
8	82.000	127.000	-45.000	54.878	41.460
9	228.000	155.000	73.000	32.018	38.696
10	199.000	127.000	72.000	36.181	38.917
11	195.000	155.000	40.000	20.513	41.763
12	110.000	127.000	-17.000	15.455	42.794
13	191.000	155.000	36.000	18.848	42.003
14	151.000	127.000	24.000	15.894	42.576
15	119.000	155.000	-36.000	30.252	42.003
16	119.000	127.000	-8.000	6.723	42.963
17	112.000	127.000	-15.000	13.393	42.842
18	87.000	127.000	-40.000	45.977	41.791
19	190.000	155.000	35.000	18.421	42.059
20	87.000	155.000	-68.000	78.161	39.294

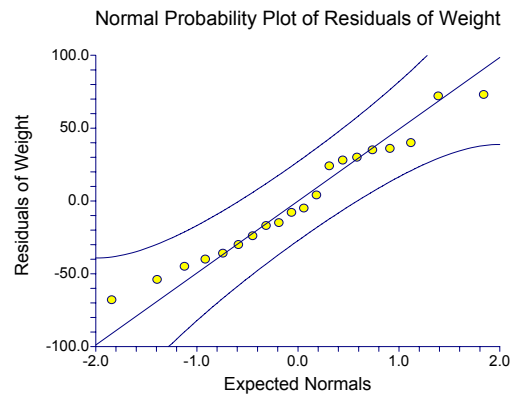
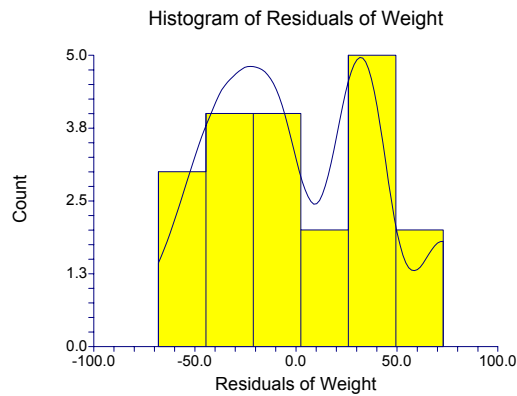
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Regression Diagnostics Section

Row	Standardized Residual	RStudent	Hat Diagonal	Cook's D	Dffits	CovRatio
1	0.1015	0.0987	0.1111	0.0006	0.0349	1.2598
2	0.7026	0.6923	0.0909	0.0247	0.2189	1.1665
3	0.7527	0.7433	0.0909	0.0283	0.2351	1.1568
4	-0.7612	-0.7520	0.1111	0.0362	-0.2659	1.1813
5	-0.6022	-0.5912	0.0909	0.0181	-0.1870	1.1840
6	-0.1255	-0.1220	0.0909	0.0008	-0.0386	1.2311
7	-1.3702	-1.4070	0.1111	0.1173	-0.4975	1.0119
8	-1.1291	-1.1383	0.0909	0.0637	-0.3600	1.0647
9	1.8524	2.0010	0.1111	0.2145	0.7074	0.8262
10	1.8066	1.9404	0.0909	0.1632	0.6136	0.8266
11	1.0150	1.0159	0.1111	0.0644	0.3592	1.1210
12	-0.4266	-0.4166	0.0909	0.0091	-0.1318	1.2084
13	0.9135	0.9091	0.1111	0.0522	0.3214	1.1470
14	0.6022	0.5912	0.0909	0.0181	0.1870	1.1840
15	-0.9135	-0.9091	0.1111	0.0522	-0.3214	1.1470
16	-0.2007	-0.1953	0.0909	0.0020	-0.0618	1.2277
17	-0.3764	-0.3672	0.0909	0.0071	-0.1161	1.2139
18	-1.0036	-1.0039	0.0909	0.0504	-0.3175	1.0991
19	0.8881	0.8826	0.1111	0.0493	0.3121	1.1531
20	-1.7255	-1.8355	0.1111	0.1861	-0.6490	0.8785

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