	MEAN	
X	Y1
1.00000	56.7528
2.00000	58.4250
3.00000	56.5000
4.00000	60.1000
5.00000	61.2000

	STANDARD DEVIATION
X	Y1
1.00000	0.743154
2.00000	1.68003
3.00000	0.424263
4.00000	0.141422
5.00000	0.848529

CONSENSUS MEAN ANALYSIS

Summary of All the Data

Response Variable:	Y1
Total Number of Observations:	46
Grand Mean:	0.5722609E+02
Grand Standard Deviation:	0.1427419E+01
Number of Labs:	5

Summary Statistics by Lab

Lab ID	N(I)	Mean	Variance	Standard Deviation	Variance of the Mean
1	36	0.5675278E+02	0.5522779E+00	0.7431540E+00	0.1534105E-01
2	4	0.5842500E+02	0.2822500E+01	0.1680030E+01	0.7056251E+00
3	2	0.5650000E+02	0.1799991E+00	0.4242630E+00	0.8999954E-01
4	2	0.6010000E+02	0.2000015E-01	0.1414219E+00	0.1000008E-01
5	2	0.6120000E+02	0.7200009E+00	0.8485287E+00	0.3600005E+00

Additional Summary Statistics

Grand Mean:	0.5722609E+02
Within Lab (Pooled) SD:	0.8369111E+00
Within Lab (Pooled) Variance:	0.7004202E+00
Minimum Lab Mean:	0.5650000E+02
Maximum Lab Mean:	0.6120000E+02

```
THE FOLLOWING METHODS ARE CONSIDERED MOST
APPROPRIATE FOR A LARGER NUMBER OF LABS (> 5)
```

Method: Modified Mandel-Paule

Estimate of (Unscaled) Consensus Mean:	0.5855906E+02
Estimate of (Scaled) Consensus Mean:	0.4380985E+00
Between Lab Variance (Unscaled):	0.3204605E+01
Between Lab SD (Unscaled):	0.1790141E+01
Between Lab Variance (Scaled):	0.1450706E+00
Normal PPF of 0.975:	0.1959965E+01
Expanded Uncertainty (Unscaled):	0.8338748E+00
Lower Limit for 95% Confidence Interval:	0.5692470E+02
Upper Limit for 95% Confidence Interval:	0.6019343E+02

Method: Mandel-Paule

Estimate of (Unscaled) Consensus Mean:	0.5856632E+02
Estimate of (Scaled) Consensus Mean:	0.4396437E+00
Between Lab Variance (Unscaled):	0.4046566E+01
Between Lab SD (Unscaled):	0.2011608E+01
Between Lab Variance (Scaled):	0.1831857E+00
Normal PPF of 0.975:	0.1959965E+01
Expanded Uncertainty (Unscaled):	0.8317266E+00
Lower Limit for 95% Confidence Interval:	0.5693617E+02
Upper Limit for 95% Confidence Interval:	0.6019648E+02

Method: Ruhkin-Vangel Maximum Likelihood

Estimate of (Unscaled) Consensus Mean:	0.5855346E+02
Estimate of (Scaled) Consensus Mean:	0.4369068E+00
Between Lab Variance (Unscaled):	0.3231233E+01
Between Lab SD (Unscaled):	0.1797563E+01
Between Lab Variance (Scaled):	0.1462760E+00
Normal PPF of 0.975:	0.1959965E+01
Expanded Uncertainty (Unscaled):	0.8306379E+00
Lower Limit for 95% Confidence Interval:	0.5692544E+02
Upper Limit for 95% Confidence Interval:	0.6018148E+02

```
THE FOLLOWING METHODS ARE CONSIDERED MOST APPROPRIATE FOR A
SMALL NUMBER OF LABORATORIES ( <= 5)
```

Method: Mean of Means (T)

Mean of Lab Means:	0.5859555E+02
Standard Deviation of Lab Means:	0.2053213E+01
Standard Uncertainty:	0.9182249E+00
Degrees of Freedom:	4
T Percent Point Value (alpha = 0.05):	0.2776446E+01
Lower Limit for 95% Confidence Interval:	0.5604615E+02
Upper Limit for 95% Confidence Interval:	0.6114495E+02

Method: BOB (Type B on Bias)

Estimate of Consensus Mean:	0.5859555E+02
Within Lab Uncertainty:	0.2173445E+00
Between Lab Uncertainty:	0.1356772E+01
Expanded Uncertainty:	0.2748141E+01
Lower Limit for 95% Confidence Interval:	0.5584741E+02
Upper Limit for 95% Confidence Interval:	0.6134370E+02

Method: Schiller-Eberhardt

Estimate of Consensus Mean:	0.5859083E+02
Estimate of Variance of Mean:	0.1691788E-01
Bias Allowance:	0.2609169E+01
Sigmah (Heterogeneity):	0.0000000E+00
Degrees of Freedom:	7
T Percent Point Value (alpha = 0.05):	0.2364576E+01
Expanded Uncertainty (Unscaled):	0.2916726E+01
Lower Limit for 95% Confidence Interval:	0.5567410E+02
Upper Limit for 95% Confidence Interval:	0.6150755E+02

THE FOLLOWING METHODS ARE INCLUDED FOR COMPARISON OR
HISTORICAL INTEREST ONLY.

Method: Graybill-Deal

Estimate of Consensus Mean:	0.5867329E+02
Estimate of Variance of Mean:	0.1046008E-01

Method: Grand Mean (T, No Lab Effect

Mean of All Data:	0.5722609E+02
Standard Uncertainty (SD/SQRT(N)):	-NaN
Degrees of Freedom:	4
T Percent Point Value (alpha = 0.05):	0.2014104E+01
Lower Limit for 95% Confidence Interval:	0.5680219E+02
Upper Limit for 95% Confidence Interval:	0.5764998E+02

Summary of Consensus Means Analysis

Method	Consensus Mean	Lower Interval	Upper Interval
Mean of Means (T)	58.59555	56.04615	61.14495
BOB	58.59555	55.84741	61.34370
Schiller-Eberhardt	58.59083	55.67410	61.50755
Modified Mandel-Paule	58.55906	56.92470	60.19343
Mandel-Paule	58.56632	56.93617	60.19648
Maximum Likelihood	58.55346	56.92544	60.18148
Grand Mean (T)	57.22609	56.80219	57.64998

MEAN PLOT Y1 X

SD PLOT Y1 X

BOX PLOT Y1 X