

Descriptive Statistics by School**The MEANS Procedure**

| Analysis Variable : amount | | | | | | | |
|----------------------------|------------------|----------|-------------|----------------|------------------|----------------|--------------------|
| school | N Obs | N | Mean | Std Dev | Std Error | t Value | Pr > t |
| SEATTLE | 14 | 14 | 27.0000000 | 36.7193095 | 9.8136483 | 2.75 | 0.0165 |
| SMU | 16 | 16 | 141.6250000 | 304.2678371 | 76.0669593 | 1.86 | 0.0823 |

Normality Tests and Plots

The UNIVARIATE Procedure

Variable: amount

school = SEATTLE

| Moments | | | |
|-----------------|------------|------------------|------------|
| N | 14 | Sum Weights | 14 |
| Mean | 27 | Sum Observations | 378 |
| Std Deviation | 36.7193095 | Variance | 1348.30769 |
| Skewness | 1.5622031 | Kurtosis | 1.47889388 |
| Uncorrected SS | 27734 | Corrected SS | 17528 |
| Coeff Variation | 135.997443 | Std Error Mean | 9.81364827 |

| Basic Statistical Measures | | | |
|----------------------------|----------|---------------------|-----------|
| Location | | Variability | |
| Mean | 27.00000 | Std Deviation | 36.71931 |
| Median | 10.00000 | Variance | 1348 |
| Mode | 0.00000 | Range | 110.00000 |
| | | Interquartile Range | 40.00000 |

| Tests for Location: Mu0=0 | | | | |
|---------------------------|-----------|---------|----------|--------|
| Test | Statistic | | p Value | |
| Student's t | t | 2.75127 | Pr > t | 0.0165 |
| Sign | M | 5 | Pr >= M | 0.0020 |
| Signed Rank | S | 27.5 | Pr >= S | 0.0020 |

| Tests for Normality | | | | |
|---------------------|-----------|----------|-----------|---------|
| Test | Statistic | | p Value | |
| Shapiro-Wilk | W | 0.753077 | Pr < W | 0.0014 |
| Kolmogorov-Smirnov | D | 0.249736 | Pr > D | 0.0187 |
| Cramer-von Mises | W-Sq | 0.229244 | Pr > W-Sq | <0.0050 |
| Anderson-Darling | A-Sq | 1.370542 | Pr > A-Sq | <0.0050 |

| Quantiles (Definition 5) | |
|--------------------------|----------|
| Level | Quantile |
| 100% Max | 110 |
| 99% | 110 |
| 95% | 110 |
| 90% | 100 |
| 75% Q3 | 40 |
| 50% Median | 10 |
| 25% Q1 | 0 |
| 10% | 0 |
| 5% | 0 |

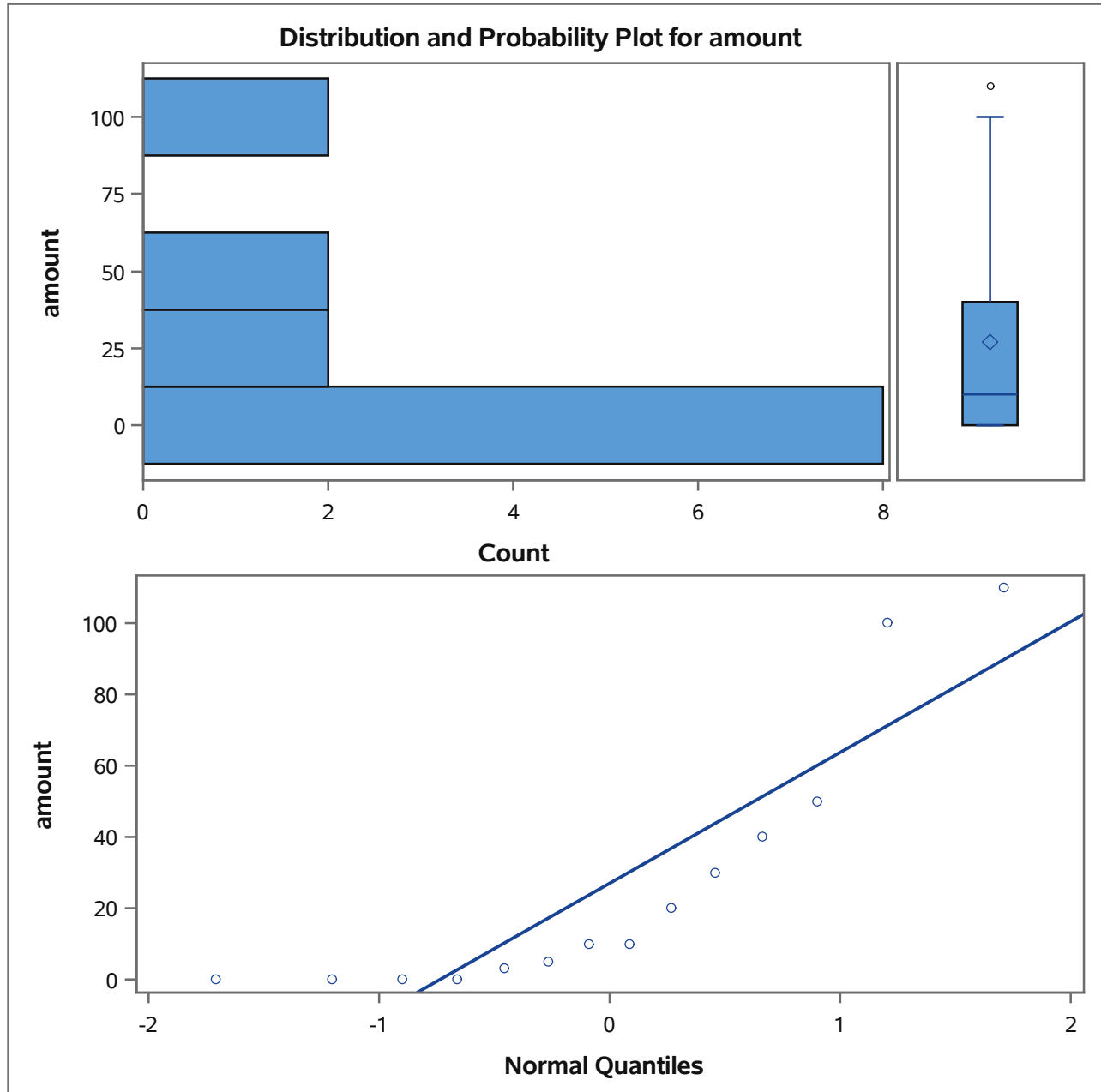
Normality Tests and Plots**The UNIVARIATE Procedure****Variable: amount****school = SEATTLE**

| Quantiles (Definition 5) | |
|--------------------------|----------|
| Level | Quantile |
| 1% | 0 |
| 0% Min | 0 |

| Extreme Observations | | | |
|----------------------|-----|---------|-----|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| 0 | 30 | 30 | 21 |
| 0 | 26 | 40 | 27 |
| 0 | 23 | 50 | 22 |
| 0 | 20 | 100 | 24 |
| 3 | 29 | 110 | 25 |

Normality Tests and Plots

The UNIVARIATE Procedure



Normality Tests and Plots

The UNIVARIATE Procedure

Variable: amount

school = SMU

| Moments | | | |
|-----------------|------------|------------------|------------|
| N | 16 | Sum Weights | 16 |
| Mean | 141.625 | Sum Observations | 2266 |
| Std Deviation | 304.267837 | Variance | 92578.9167 |
| Skewness | 3.20460293 | Kurtosis | 10.9691183 |
| Uncorrected SS | 1709606 | Corrected SS | 1388683.75 |
| Coeff Variation | 214.840485 | Std Error Mean | 76.0669593 |

| Basic Statistical Measures | | | |
|----------------------------|----------|---------------------|-----------|
| Location | | Variability | |
| Mean | 141.6250 | Std Deviation | 304.26784 |
| Median | 32.0000 | Variance | 92579 |
| Mode | 0.0000 | Range | 1200 |
| | | Interquartile Range | 69.50000 |

| Tests for Location: Mu0=0 | | | | |
|---------------------------|-----------|----------|----------|--------|
| Test | Statistic | | p Value | |
| Student's t | t | 1.861846 | Pr > t | 0.0823 |
| Sign | M | 6 | Pr >= M | 0.0005 |
| Signed Rank | S | 39 | Pr >= S | 0.0005 |

| Tests for Normality | | | | |
|---------------------|-----------|----------|-----------|---------|
| Test | Statistic | | p Value | |
| Shapiro-Wilk | W | 0.511885 | Pr < W | <0.0001 |
| Kolmogorov-Smirnov | D | 0.381157 | Pr > D | <0.0100 |
| Cramer-von Mises | W-Sq | 0.606316 | Pr > W-Sq | <0.0050 |
| Anderson-Darling | A-Sq | 3.14562 | Pr > A-Sq | <0.0050 |

| Quantiles (Definition 5) | |
|--------------------------|----------|
| Level | Quantile |
| 100% Max | 1200.0 |
| 99% | 1200.0 |
| 95% | 1200.0 |
| 90% | 400.0 |
| 75% Q3 | 74.5 |
| 50% Median | 32.0 |
| 25% Q1 | 5.0 |
| 10% | 0.0 |
| 5% | 0.0 |

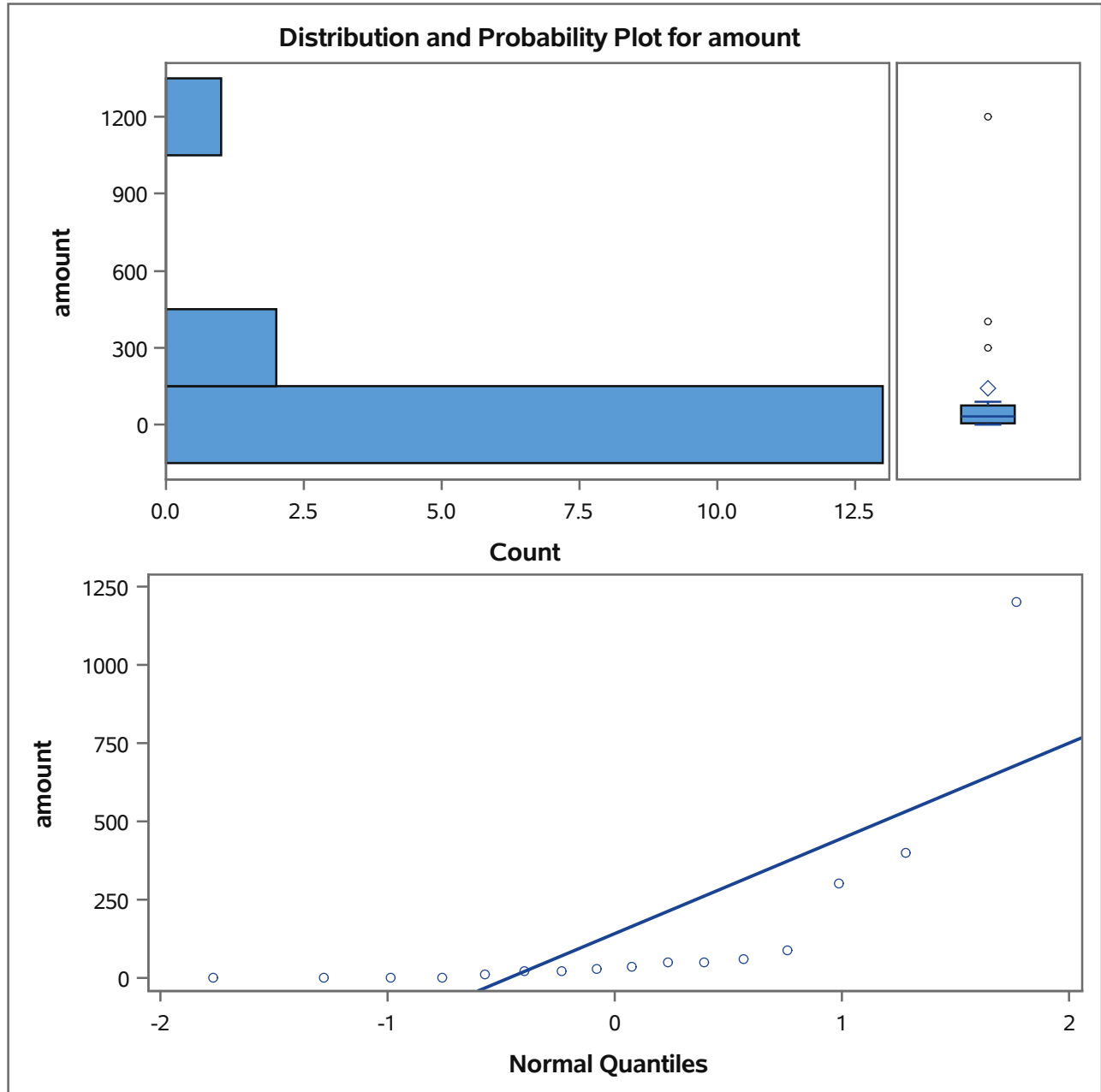
Normality Tests and Plots**The UNIVARIATE Procedure****Variable: amount****school = SMU**

| Quantiles (Definition 5) | |
|--------------------------|----------|
| Level | Quantile |
| 1% | 0.0 |
| 0% Min | 0.0 |

| Extreme Observations | | | |
|----------------------|-----|---------|-----|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| 0 | 16 | 60 | 5 |
| 0 | 11 | 89 | 10 |
| 0 | 8 | 300 | 12 |
| 0 | 7 | 400 | 13 |
| 10 | 15 | 1200 | 2 |

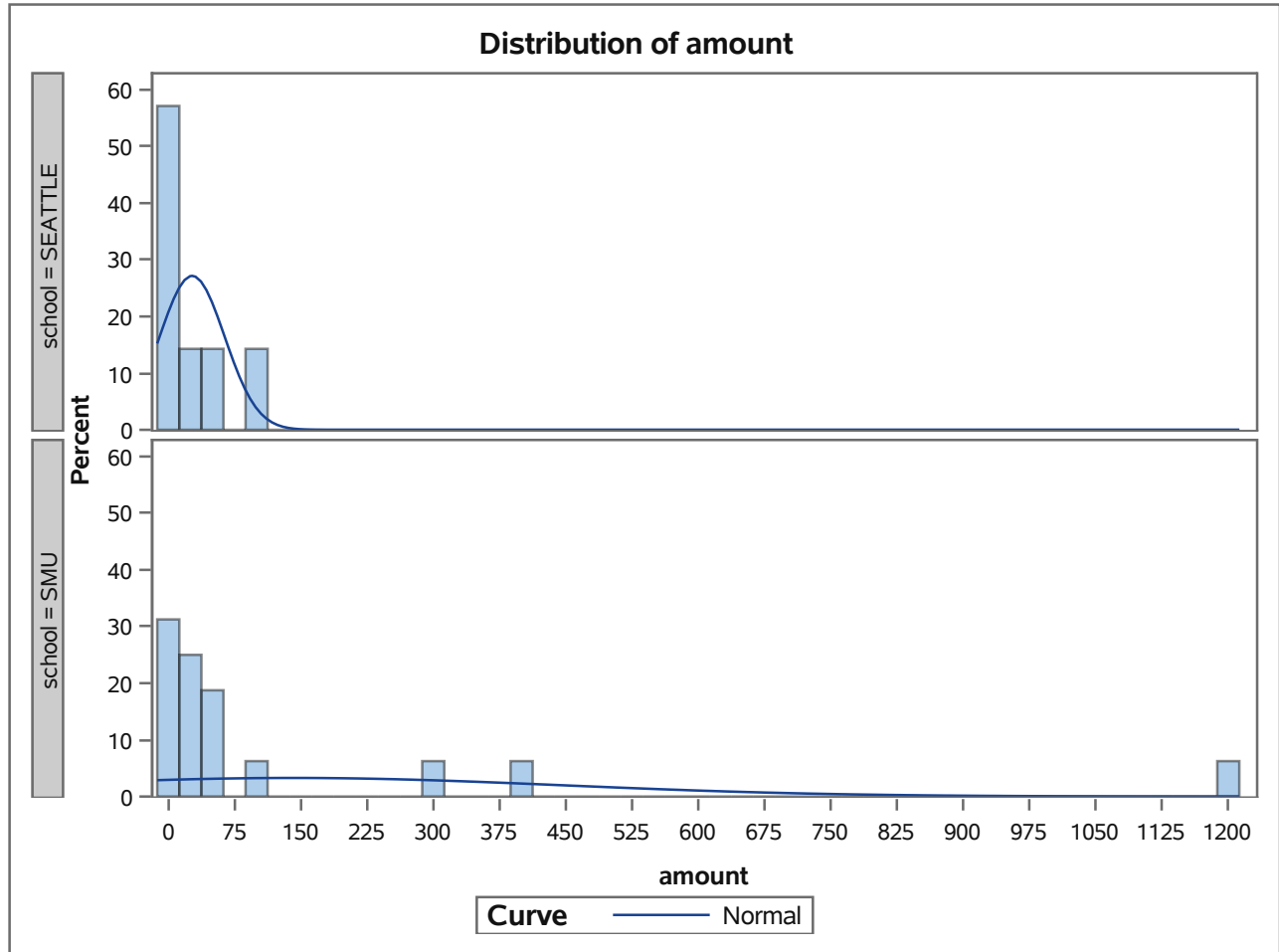
Normality Tests and Plots

The UNIVARIATE Procedure



Normality Tests and Plots

The UNIVARIATE Procedure



Normality Tests and Plots**The UNIVARIATE Procedure****school = SEATTLE****Fitted Normal Distribution for amount**

| Parameters for Normal Distribution | | |
|------------------------------------|--------|----------|
| Parameter | Symbol | Estimate |
| Mean | Mu | 27 |
| Std Dev | Sigma | 36.71931 |

| Goodness-of-Fit Tests for Normal Distribution | | | | |
|---|-----------|------------|-----------|--------|
| Test | Statistic | | p Value | |
| Kolmogorov-Smirnov | D | 0.24973623 | Pr > D | 0.019 |
| Cramer-von Mises | W-Sq | 0.22924425 | Pr > W-Sq | <0.005 |
| Anderson-Darling | A-Sq | 1.37054244 | Pr > A-Sq | <0.005 |

| Quantiles for Normal Distribution | | |
|-----------------------------------|----------|-----------|
| Percent | Quantile | |
| | Observed | Estimated |
| 1.0 | 0.000 | -58.42189 |
| 5.0 | 0.000 | -33.39789 |
| 10.0 | 0.000 | -20.05769 |
| 25.0 | 0.000 | 2.23320 |
| 50.0 | 10.000 | 27.00000 |
| 75.0 | 40.000 | 51.76680 |
| 90.0 | 100.000 | 74.05769 |
| 95.0 | 110.000 | 87.39789 |
| 99.0 | 110.000 | 112.42189 |

Normality Tests and Plots**The UNIVARIATE Procedure****school = SMU****Fitted Normal Distribution for amount**

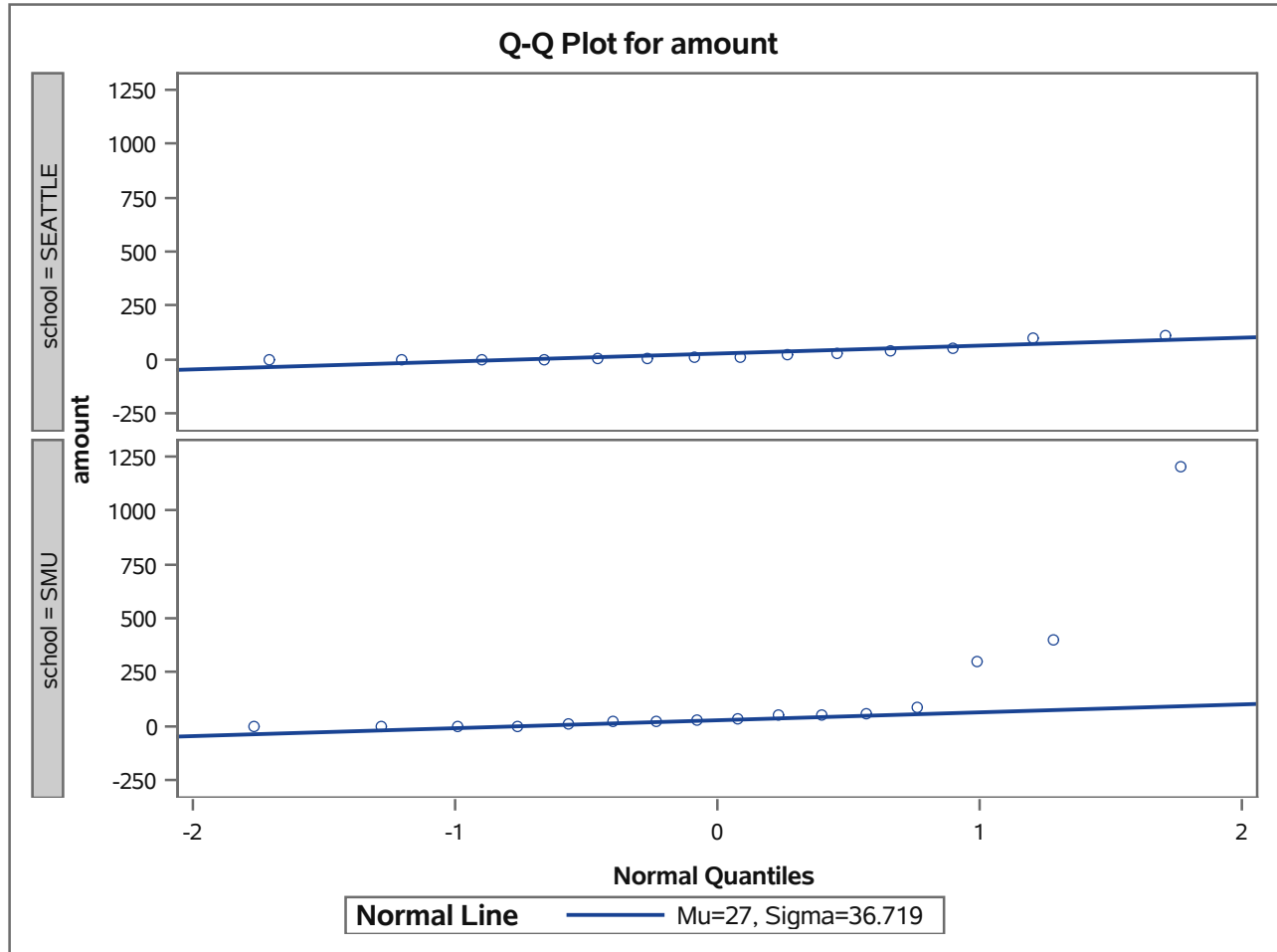
| Parameters for Normal Distribution | | |
|------------------------------------|--------|----------|
| Parameter | Symbol | Estimate |
| Mean | Mu | 141.625 |
| Std Dev | Sigma | 304.2678 |

| Goodness-of-Fit Tests for Normal Distribution | | | | |
|---|-----------|------------|-----------|--------|
| Test | Statistic | | p Value | |
| Kolmogorov-Smirnov | D | 0.38115706 | Pr > D | <0.010 |
| Cramer-von Mises | W-Sq | 0.60631554 | Pr > W-Sq | <0.005 |
| Anderson-Darling | A-Sq | 3.14561969 | Pr > A-Sq | <0.005 |

| Quantiles for Normal Distribution | | |
|-----------------------------------|----------|-----------|
| Percent | Quantile | |
| | Observed | Estimated |
| 1.0 | 0.00 | -566.2078 |
| 5.0 | 0.00 | -358.8511 |
| 10.0 | 0.00 | -248.3099 |
| 25.0 | 5.00 | -63.6005 |
| 50.0 | 32.00 | 141.6250 |
| 75.0 | 74.50 | 346.8505 |
| 90.0 | 400.00 | 531.5599 |
| 95.0 | 1200.00 | 642.1011 |
| 99.0 | 1200.00 | 849.4578 |

Normality Tests and Plots

The UNIVARIATE Procedure



Levene's Test for Homogeneity of Variance**The GLM Procedure**

| Class Level Information | | |
|-------------------------|--------|-------------|
| Class | Levels | Values |
| school | 2 | SEATTLE SMU |

| | |
|-----------------------------|----|
| Number of Observations Read | 30 |
| Number of Observations Used | 30 |

Levene's Test for Homogeneity of Variance

The GLM Procedure

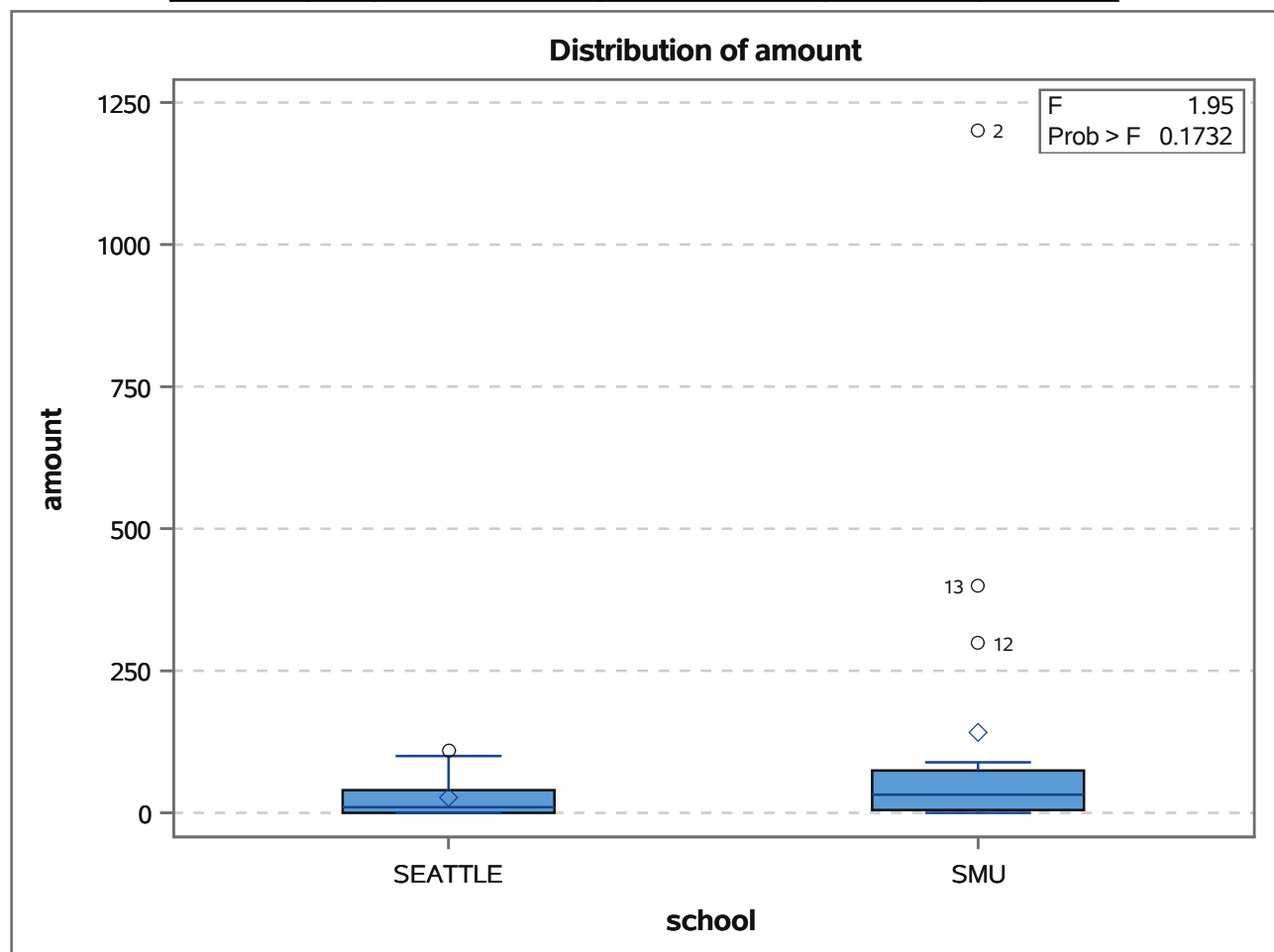
Dependent Variable: amount

| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
|-----------------|----|----------------|-------------|---------|--------|
| Model | 1 | 98103.717 | 98103.717 | 1.95 | 0.1732 |
| Error | 28 | 1406211.750 | 50221.848 | | |
| Corrected Total | 29 | 1504315.467 | | | |

| R-Square | Coeff Var | Root MSE | amount Mean |
|----------|-----------|----------|-------------|
| 0.065215 | 254.2765 | 224.1023 | 88.13333 |

| Source | DF | Type I SS | Mean Square | F Value | Pr > F |
|--------|----|-------------|-------------|---------|--------|
| school | 1 | 98103.71667 | 98103.71667 | 1.95 | 0.1732 |

| Source | DF | Type III SS | Mean Square | F Value | Pr > F |
|--------|----|-------------|-------------|---------|--------|
| school | 1 | 98103.71667 | 98103.71667 | 1.95 | 0.1732 |

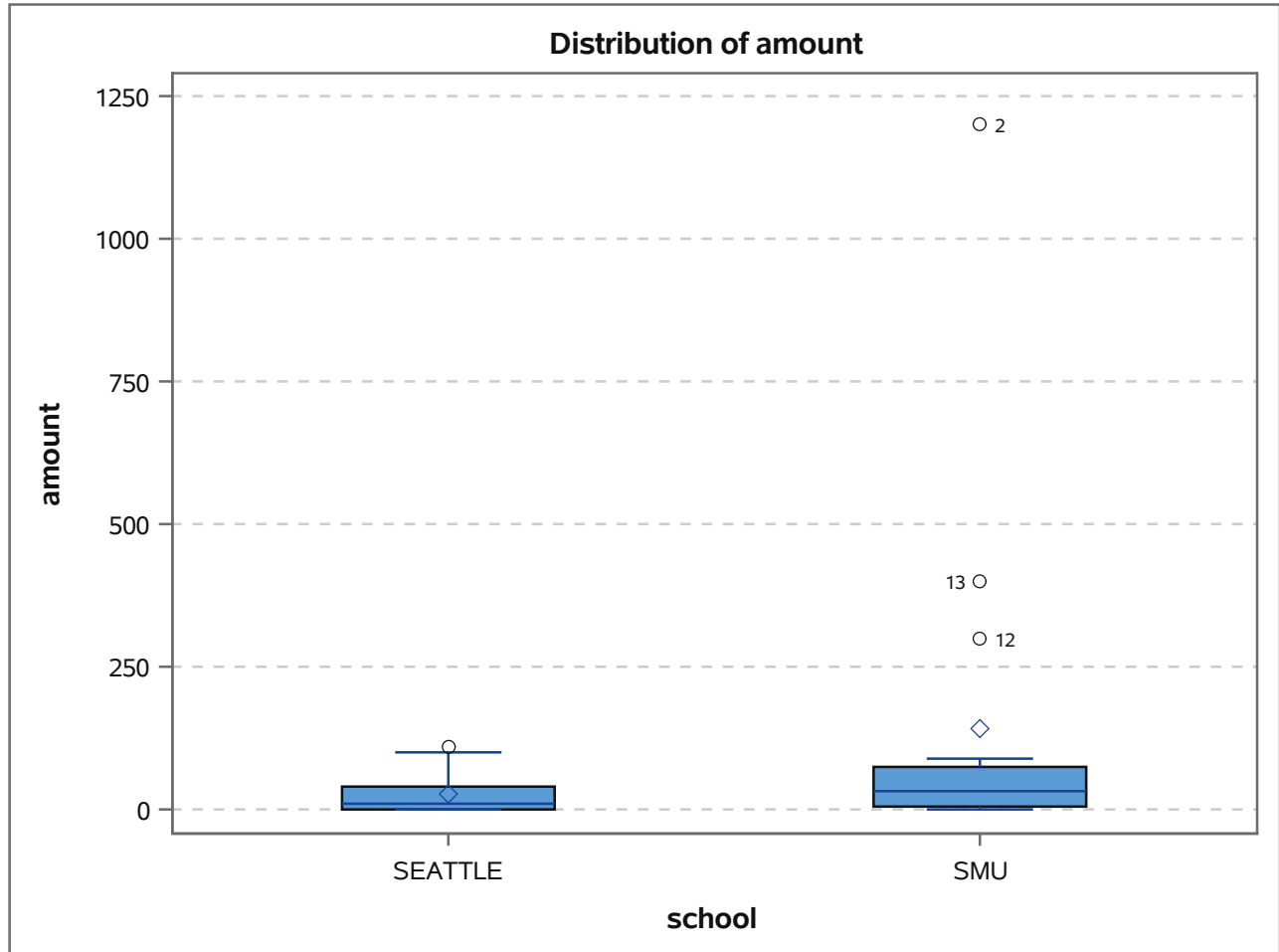


Levene's Test for Homogeneity of Variance**The GLM Procedure**

| Levene's Test for Homogeneity of amount Variance ANOVA of Squared Deviations from Group Means | | | | | |
|--|----|-------------------|----------------|---------|--------|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| school | 1 | 5.464E10 | 5.464E10 | 1.34 | 0.2569 |
| Error | 28 | 1.142E12 | 4.079E10 | | |

Levene's Test for Homogeneity of Variance

The GLM Procedure



| Level of school | N | amount | |
|-----------------|----|------------|------------|
| | | Mean | Std Dev |
| SEATTLE | 14 | 27.000000 | 36.719310 |
| SMU | 16 | 141.625000 | 304.267837 |

Two-Sample t-Test Results**The TTEST Procedure**

Variable: amount

| school | Method | N | Mean | Std Dev | Std Err | Minimum | Maximum |
|------------|---------------|----|---------|---------|---------|---------|---------|
| SEATTLE | | 14 | 27.0000 | 36.7193 | 9.8136 | 0 | 110.0 |
| SMU | | 16 | 141.6 | 304.3 | 76.0670 | 0 | 1200.0 |
| Diff (1-2) | Pooled | | -114.6 | 224.1 | 82.0131 | | |
| Diff (1-2) | Satterthwaite | | -114.6 | | 76.6974 | | |

| school | Method | Mean | 95% CL Mean | | Std Dev | 95% CL Std Dev | |
|------------|---------------|---------|-------------|---------|---------|----------------|---------|
| SEATTLE | | 27.0000 | 5.7989 | 48.2011 | 36.7193 | 26.6198 | 59.1564 |
| SMU | | 141.6 | -20.5079 | 303.8 | 304.3 | 224.8 | 470.9 |
| Diff (1-2) | Pooled | -114.6 | -282.6 | 53.3711 | 224.1 | 177.8 | 303.1 |
| Diff (1-2) | Satterthwaite | -114.6 | -277.6 | 48.3948 | | | |

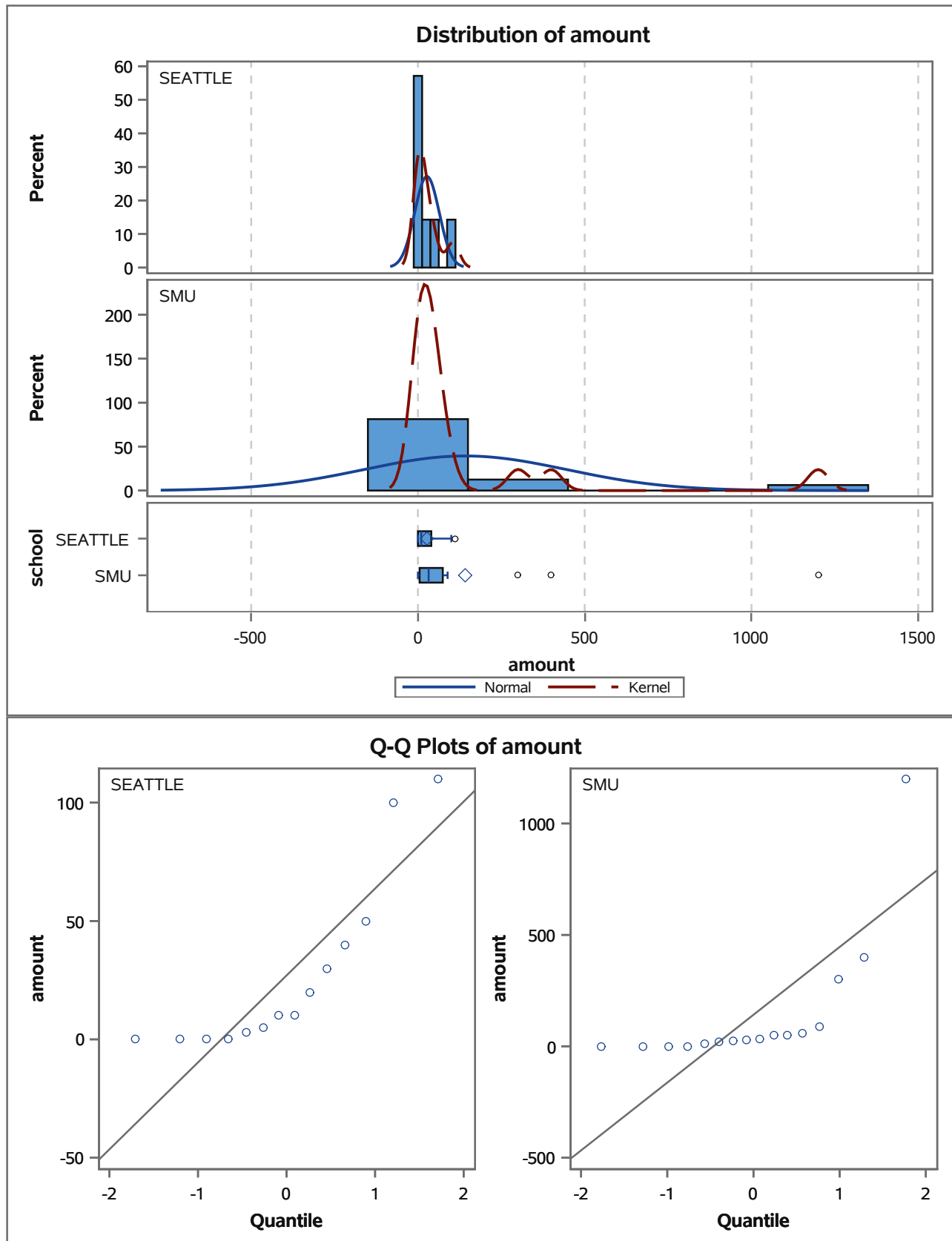
| Method | Variances | DF | t Value | Pr > t |
|---------------|-----------|--------|---------|---------|
| Pooled | Equal | 28 | -1.40 | 0.1732 |
| Satterthwaite | Unequal | 15.499 | -1.49 | 0.1551 |

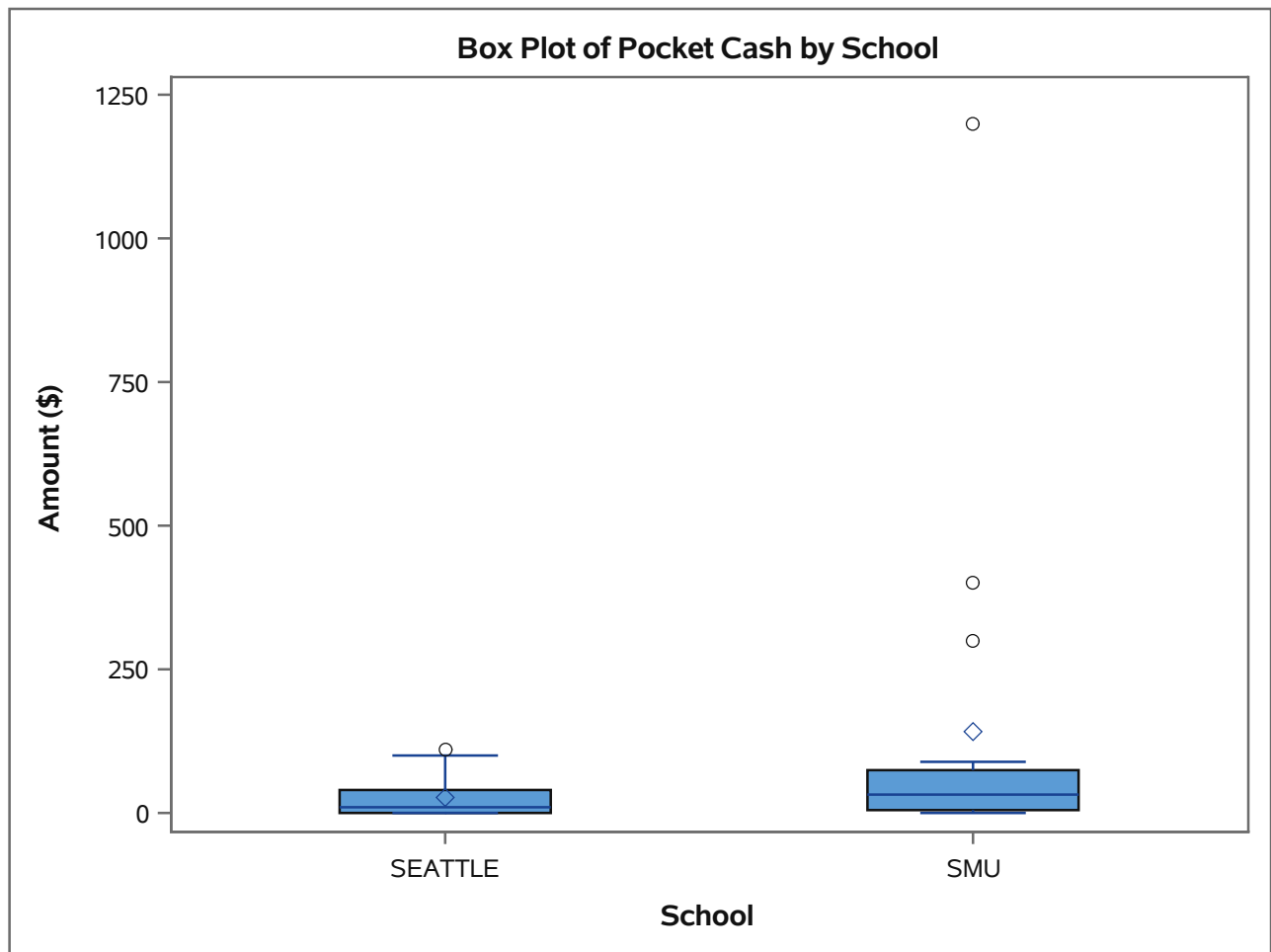
| Equality of Variances | | | | |
|-----------------------|--------|--------|---------|--------|
| Method | Num DF | Den DF | F Value | Pr > F |
| Folded F | 15 | 13 | 68.66 | <.0001 |

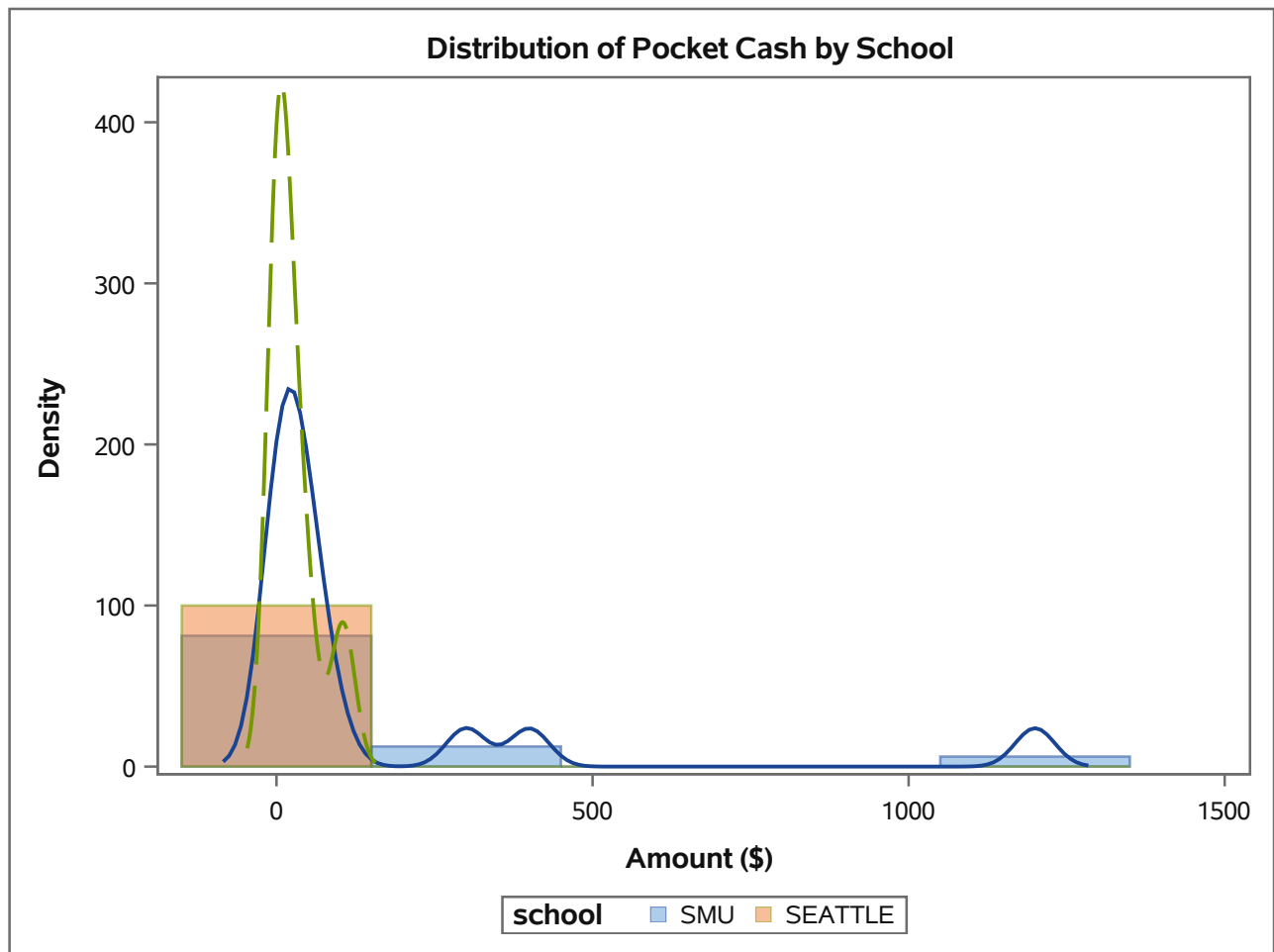
Two-Sample t-Test Results

The TTEST Procedure

Variable: amount







Distribution of Pocket Cash by School

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| Effect Size Analysis |
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