data eggDiff;

input sept oct;

diff = sept - oct;

datalines;

34 25

29 26

30 28

27 26

32 35

35 32

26 28

27 25

36 26

38 26

;

proc univariate data=eggDiff mu0=0; var diff;

run;

| **Moments** | | | |
| --- | --- | --- | --- |
| **N** | 10 | **Sum Weights** | 10 |
| **Mean** | 3.7 | **Sum Observations** | 37 |
| **Std Deviation** | 5.03432661 | **Variance** | 25.3444444 |
| **Skewness** | 0.49480554 | **Kurtosis** | -0.8561369 |
| **Uncorrected SS** | 365 | **Corrected SS** | 228.1 |
| **Coeff Variation** | 136.062881 | **Std Error Mean** | 1.59199386 |

| **Basic Statistical Measures** | | | |
| --- | --- | --- | --- |
| **Location** | | **Variability** | |
| **Mean** | 3.700000 | **Std Deviation** | 5.03433 |
| **Median** | 2.500000 | **Variance** | 25.34444 |
| **Mode** | 2.000000 | **Range** | 15.00000 |
|  |  | **Interquartile Range** | 8.00000 |

|  |
| --- |
| ***Note: The mode displayed is the smallest of 2 modes with a count of 2.*** |

| **Tests for Location: Mu0=0** | | | | |
| --- | --- | --- | --- | --- |
| **Test** | **Statistic** | | **p Value** | |
| **Student's t** | **t** | 2.32413 | **Pr > |t|** | 0.0452 |
| **Sign** | **M** | 3 | **Pr >= |M|** | 0.1094 |
| **Signed Rank** | **S** | 18.5 | **Pr >= |S|** | 0.0645 |

| **Quantiles (Definition 5)** | |
| --- | --- |
| **Level** | **Quantile** |
| **100% Max** | 12.0 |
| **99%** | 12.0 |
| **95%** | 12.0 |
| **90%** | 11.0 |
| **75% Q3** | 9.0 |
| **50% Median** | 2.5 |
| **25% Q1** | 1.0 |
| **10%** | -2.5 |
| **5%** | -3.0 |
| **1%** | -3.0 |
| **0% Min** | -3.0 |

| **Extreme Observations** | | | |
| --- | --- | --- | --- |
| **Lowest** | | **Highest** | |
| **Value** | **Obs** | **Value** | **Obs** |
| -3 | 5 | 3 | 2 |
| -2 | 7 | 3 | 6 |
| 1 | 4 | 9 | 1 |
| 2 | 8 | 10 | 9 |
| 2 | 3 | 12 | 10 |