**Unit 7 - Day 4 Assignment (Basic Statistics)**

1) In six computer games, Olga scored 122, 138, 130, 54, 102 and 124. Find all of the following:

a) mean:

b) median:

c) mode:

d) range:

e) quartile 1:

f) quartile 2:

g) quartile 3:

h) interquartile range:

i) outliers:

j) box-and-whisker plot:

k) standard deviation:

l) variance:

m) whole number of standard deviation from the mean that includes all data:

2) Identify the outlier of each of the set of values:

 a) 32 35 3 36 37 38 40 42 34

 b) 153 156 176 156 165 101 159 169 172

3) Find the mean, median and mode of each set of values:

 a) Customers per day: 98 87 79 82 101 99 97 97 102 91 93

 b)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Weight (g) | 2.3 | 2.4 | 2.5 | 2.6 | 2.8 | 2.9 |
| Frequency | 1 | 4 | 1 | 1 | 1 | 2 |

4) The list gives the average temperatures in January for several cities in the mid-South. Make a box-and-whisker plot of the data.

 49.1 50.8 42.9 44.0 44.2 51.4 45.7 39.9 50.8 46.7 52.4 50.4

5) Find the mean, standard deviation and variance for each data set.

 a) 232 254 264 274 287 298 312 342 398

 b) 5.34 5.40 5.41 5.42 5.50 5.55 5.55 5.57 5.70 5.65 5.66 5.68

6) Determine the whole number of standard deviations that include all data values.

 a) The mean hours students in your study group study is 66.1 minutes; the standard
 deviation is 2.9 minutes.

 Data: 62 63 65 64 68 68 69 72 66

 b) The mean weight of your pets is 18.25 lb; the standard deviation is 30.1 lb

 Data: 0.25 0.25 6 8 10 8