|  |  |
| --- | --- |
| Name: Ellinie Clair R. Ganut | Date |
| Program | Score |

**Activity 4.3 Central Tendency and Variability Measures**

**Direction:** Solve the following problems as indicated.

1. USTP employees have the following monthly dues in thousand pesos to their cooperative: 10, 40, 5, 20, 10, 25, 50, 30, 10, 5, 15, 25, 50, 10, 30, 5, 25 and 45. Find the mean, median and mode.

**Mean: 22.77**

**Median: 35**

**Mode: 10**

1. Three students are named finalists in the search for A-1 Student of the Year. The evaluation papers revealed the following scores of the students in five different areas: Solve for the range and variance.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Student A | 97 | 92 | 96 | 95 | 90 |
| Student B | 94 | 94 | 92 | 94 | 96 |
| Student C | 95 | 94 | 93 | 96 | 92 |

**Student A :97 – 90 Range: = 7 Variance: 8.2**

**Student B :96 – 92 Range: = 4**

**Student C:96 – 92 Range: = 4 Variance: 2**

1. The numbe r of incorrect answers on a true-or-false mathematics proficiency test for a random sample of 20 students was recorded as follows: Solve for the standard deviation.

3 3 5 6 1 2 1 4 4 5

1 3 2 5 4 4 5 1 2 3

**Standrard deviation: 1.5761**

1. Which group is the most heterogeneous?

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Group I scores | 100 | 123 | 122 | 150 | 146 | 141 | 132 | 132 |
| Group II scores | 102 | 102 | 132 | 154 | 124 | 136 | 25 | 135 |
| Group III scores | 150 | 120 | 130 | 114 | 112 | 105 | 136 | 104 |

**Group 1 scores is the most heterogeneous**