**Name:** _____

# Median

**Exercise 1:** For the following sets of data, find the median:

1) 2, 1, 2, 3, 1, 3, 0, 2, 4, 2, 2
2) 2.4, 3.9, 1.8, 1.7, 4.0, 2.1, 3.9, 1.5, 3.9, 2.6
3) 153.8, 154.7, 156.9, 154.3, 152.3, 156.1, 152.3

**Exercise 2** Imagine that the number of unemployed people is given in the table below. Find the median.

| Age group | No. Unemployed |
|---|---|
| 15-19 | 3,688 |
| 20-24 | 4,031 |
| 25-34 | 5,432 |
| 35-44 | 4,360 |
| 45-54 | 3,162 |
| 55-64 | 1,702 |

**Exercise 3:** A random survey of 100 married men gave the following distribution of hours spent per week doing unpaid household work:

| Hours | No. of men |
|---|---|
| 0 -4 | 1 |
| 5 - 9 | 18 |
| 10 - 14 | 24 |
| 15 - 19 | 25 |
| 20 - 24 | 18 |
| 25 - 29 | 12 |
| 30 - 34 | 1 |
| 35 - 39 | 1 |

1) Find the cumulative frequency.
2) Draw the distribution curve with the cumulative frequency on the y-axis.
3) Calculate the mean. What does this value indicate?
4) Calculate the median.
5) Briefly describe the comparison between the mean and median values.

Exercise 9: Forty students took a math test marked out of 10 points. Their results were as follows:
9, 10, 7, 8, 9, 6, 5, 9, 4, 7, 1, 7, 2, 7, 8, 5, 4, 3, 10, 7, 3, 7, 8, 6, 9, 7, 4, 2, 3, 9,
4, 3, 7, 5, 5, 2, 7, 9, 7, 1

a) Construct a frequency table of the scores.
b) Using the frequency table to calculate the mean and median.
c) Interpret these results.

Exercise 10: Given the table below find the frequency of each class and the median class

| Raisin Count | Cumulative Frequency |
|---|---|
| 25 | 1 |
| 26 | 3 |
| 27 | 6 |
| 28 | 11 |
| 29 | 15 |
| 30 | 16 |
| 31 | 19 |