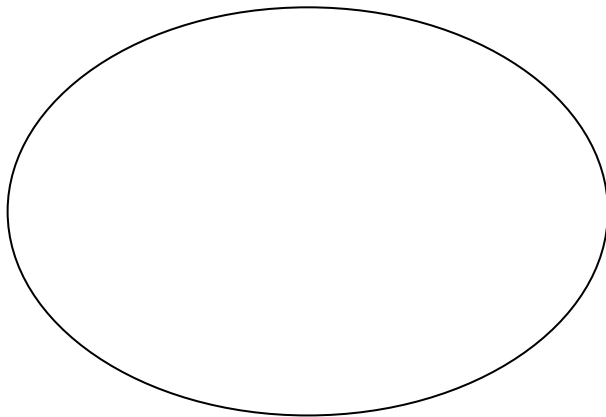


Measures of Central Tendency

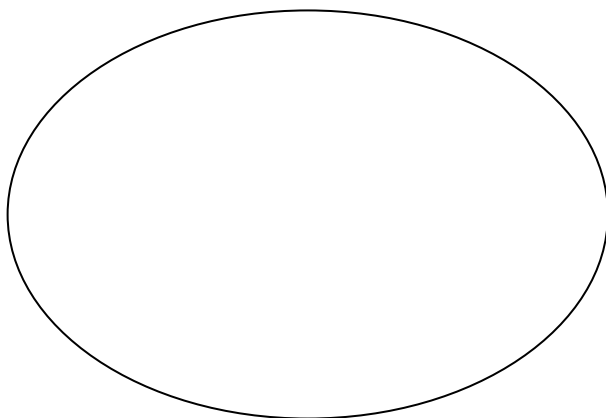
Measures of central tendency quantify what we think of as the "typical" or "average" score in a data set. The _____
are all measures of central tendency. They give us an overall snapshot of the data.

Mean



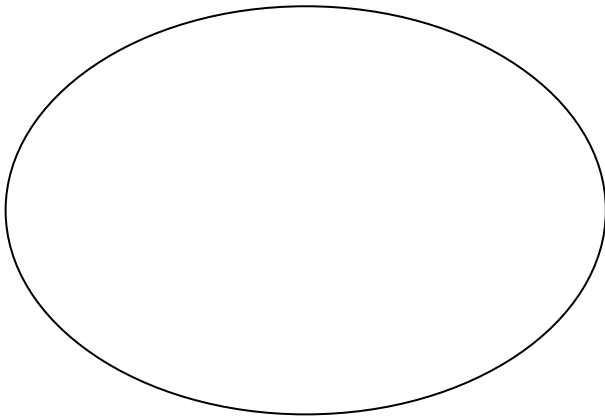
Ex) Lily recently bought 5 CDs that cost:
\$14.95, \$9.99, \$9.99, \$13.95, and
\$12.95

Median



Ex) Jack is a real estate agent.
Arranged from least to greatest,
the prices of the last 6 houses
he sold were:
\$185 000, \$219 900, \$749 500,
\$245 000, \$194 900, and
\$259 900

Mode



Ex) At a recent concert, AJ sold these
Sizes of band t-shirts:
21 small, 16 medium, 50 large,
and 14 extra large.

Ex) The Canadiens' roster has the following point totals:

| | | | | | | | |
|----|----|----|----|----|----|----|----|
| 43 | 28 | 27 | 24 | 24 | 24 | 24 | 20 |
| 16 | 14 | 14 | 13 | 12 | 12 | 11 | 11 |
| 10 | 8 | 7 | 6 | 4 | 3 | 2 | 1 |
| 0 | 0 | 0 | | | | | |

Calculate the mean, median, and mode.

Group Challenge Questions

The first group to correctly answer all of the following questions wins! When our group is done please have one person hand in the solutions. If there are incorrect answers they will be circled and the paper given back the group until they have them all correct.

For each set of data below:

- a) Find the mean test score.
- b) Find the median test score.
- c) Find the mode test score.
- d) Which measure of central tendency best describes the data? Explain.

1. Test scores, all out of 100:

61, 76, 89, 72, 65, 71, 61, 83, 45, 68, 62, 59, 71, 68, 69, 86

2. Erika recorded the masses, in grams, of bags of cashews sold on Monday at her bulk food store:

58, 37, 37, 38, 42, 41, 46, 43, 41, 37, 38, 37

3. The number of litres of gasoline purchased by customers in one hour at a gas station:

25, 21, 38, 29, 32, 44, 38, 21, 16