## CHAPTER 5

## FILL-IN-THE-BLANK ITEMS

## Introduction

Measures of central tendency are values near the (1) $\qquad$ of the distribution. The measures discussed in the chapter are the (2) $\qquad$ , the (3) $\qquad$ , and the (4) $\qquad$ .

## The Mode

The most frequently occurring score is called the (5) $\qquad$ , symbolized by
(6) $\qquad$ . The mode is the (7) $\qquad$ stable of the measures of central
tendency. A distribution with two modes is called (8) $\qquad$ , and both values are reported.

## The Median

The median is the score value at the (9) $\qquad$ percentile. A (10) $\qquad$ is the score at or below which a given percentage of the scores lie.

Locating the median by the counting method: Even number of scores

In a frequency distribution with an even number of scores, the median will be halfway between the (11) $\qquad$ score and the (12) $\qquad$ score.

Locating the median by the counting method: Odd number of scores

If there is an odd number of scores, the median will be the (13) $\qquad$ score.

## The Mean, or Arithmetic Average

The mean or arithmetic average is the sum of the (14) $\qquad$ divided by the (15) $\qquad$ of scores in a distribution. In a frequency distribution, the (16) $\qquad$ must be taken into account when the mean is determined. The symbol for the
mean of a sample is (17) $\qquad$ , whereas the symbol for the corresponding population
parameter is (18) $\qquad$ .

## Rounding conventions

Rounding rules are as follows:

1. Round your final answer to (19) $\qquad$ .
2. If possible, round only the (20) $\qquad$ answer.
3. In all preliminary calculations leading up to the final answer, maintain at least (21) $\qquad$ decimal places.
4. If the digit in the thousandths place is less than 5, (22) $\qquad$ it and everything that follows it.
5. If the digit in the thousandths place is 5 or more, round the preceding digit (23) $\qquad$ .

The mean as a balancing point

The mean is called the (24) $\qquad$ point in the distribution because the sum of the deviations about it is equal to (25) $\qquad$ _.

## Comparing Measures of Central Tendency

The (26) $\qquad$ is useful for summarizing nominal scale data and for obtaining a rough estimate of the mean and the median. The (27) $\qquad$ is the best measure of central tendency when a distribution is badly skewed or when there are (28) $\qquad$ scores. The mean is the most useful of the measures because most other (29) $\qquad$ procedures are based on it. Also, it is the most (30) $\qquad$ of the measures from sample to sample. Because the mean shows no systematic tendencies in relation to the population mean, it is called an (31) $\qquad$ estimate of $\mu$.

## Positions of Measures of Central Tendency on a Frequency Polygon

In a unimodal, symmetrical distribution, the mean, median, and mode will all be the (32) $\qquad$ In skewed distributions, the (33) $\qquad$ is most affected and is
pulled in the direction of the (34) $\qquad$ . The median will be between the (35) $\qquad$ and the mean in a skewed distribution.

## Troubleshooting Your Computations

The most important thing to remember in locating the measures of central tendency is that your answer should be a value near the (36) $\qquad$ of the distribution. Also, if you are trying to find the mean in a frequency distribution, you must remember to take the (37) $\qquad$ into account.

To help prevent computational errors, you should perform all computations
(38) $\qquad$ , being sure you get the same answer each time.

