CHAPTER 5

FILL-IN-THE-BLANK ITEMS

Introduction

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

The Mode

The most frequently occurring score is called the (5) _____, symbolized by

(6) ______. The mode is the (7) ______ stable of the measures of central

tendency. A distribution with two modes is called (8) ______, and both values are reported.

The Median

The median is the score value at the (9) ______ percentile. A (10) ______ 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) ______ score and the (12) ______ 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) ______ score.

The Mean, or Arithmetic Average

The mean or arithmetic average is the sum of the (14) ______ divided by the

(15) ______ of scores in a distribution. In a frequency distribution, the

(16) _____ must be taken into account when the mean is determined. The symbol for the

mean of a sample is (17) _____, whereas the symbol for the corresponding population

parameter is (18) _____.

Rounding conventions

Rounding rules are as follows:

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

The mean as a balancing point

The mean is called the (24) ______ point in the distribution because the sum of the deviations

about it is equal to (25) _____.

Comparing Measures of Central Tendency

The (26) is useful for summarizing nominal scale data and for obtaining a rough						
estimate of the mean and the med	lian. The (27)	is the best measure of central tendency				
when a distribution is badly skew	red or when there are (28)	scores. The mean is the				
most useful of the measures beca	use most other (29)	procedures are based on it. Also,				
it is the most (30)	of the measures from sa	mple to sample. Because the mean shows				
no systematic tendencies in relati	on to the population mean, it is	s called an (31)				
estimate of μ .						

Positions of Measures of Central Tendency on a Frequency Polygon

In a unimodal, symmetrical distribution, the mean, median, and mode will all be the

	(20)		1	(22)	\ \	• • • • • • • •		1 *	ē.,
((32)	In skewed distributions	s, the	(33))	is most	affected	and 1	ıS

pulled in the direction of the (34) ______. The median will be between the

(35) ______ 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) ______ of the distribution. Also, if you are trying to find the mean in a frequency distribution, you must remember to take the (37) ______ into account. To help prevent computational errors, you should perform all computations (38) ______, being sure you get the same answer each time.