## **CHAPTER 8**

# FILL-IN-THE-BLANK ITEMS

## Introduction

## **Curves and Probability**

All distributions of scores can be thought of as (8)	distributions. The area under a	
portion of the curve represents the (9)	associated with the scores falling in that area.	
Determining that probability usually involves two steps. First, we convert our raw scores to		
(10) Second, we use the <i>z</i> scores in conjunction with Table (11)		
in Appendix 2 to determine an (12)	_ of the curve.	

## **Characteristics of the Normal Curve**

Each normal curve is (13)	; that is, the two halves co	bincide. Each normal curve has the
same measures of (14)	_ tendency, and the (15)	of each curve
never reach the baseline. The (16)	normal curve has	s a mean of 0 and a standard
deviation of 1. Almost the entire normal cu	rve is bounded by (17)	standard deviation
units. <b>Review of</b> <i>z Scores</i>		

A (18) \_\_\_\_\_\_ is the deviation of a raw score from the mean in standard deviation units. Negative *z* scores tell us that the raw score we are converting is (19) \_\_\_\_\_\_ the mean, and positive values tell us that the raw score is (20) \_\_\_\_\_\_ the mean.

## Using the Normal Curve Table

In Table A, the percentage area between the mean and any z score is found in column

(21) \_\_\_\_\_. The remaining area beyond the *z* score is contained in column

(22) \_\_\_\_\_.

## Finding Areas Under the Curve

Finding percentage frequency

When we find a percentage area under the normal curve, w	ve can take that percentage of the total sample	
size to find (29)	_ subjects have scores in the area.	
Finding an area between two scores		
To find an area between two scores, both scores must be converted to (30) Then		
either the areas from Table A are (31)	_ or the smaller area is subtracted from the larger	
to find the area between the scores.		

#### Probability and areas under the curve

The percentage areas under the curve can be converted into probabilities by dividing them by

(32) \_\_\_\_\_. The range of probability is from 0 to (33) \_\_\_\_\_.

#### **Finding Scores Cutting Off Areas**

Finding the score that has a particular percentile rank

To locate a score associated with a particular area, first determine a (34) \_\_\_\_\_ from

Table A and then convert it to a raw score with Formula 6-19.

#### Finding deviant scores

When the problem asks for deviant or unlikely scores without specifying the direction of the deviance, you

are really being asked to find scores at (35) \_\_\_\_\_\_ ends of the distribution. The deviant

percentage must first be divided in (36) \_\_\_\_\_\_ before the graph can be correctly labeled.

#### Probability and deviant scores

If the problem of finding deviant scores is stated in terms of probability (e.g., find the scores that are so

deviant that their probability is .05 or less), the first step is to convert the probability to

(37) \_\_\_\_\_. To do this, you multiply the probability by

(38) \_\_\_\_\_.

## **Troubleshooting Your Computations**

As an aid to understanding and to determining whether your answer is appropriate, a small

(39) \_\_\_\_\_\_ should always be drawn and labeled as completely as

possible. Then the obtained answer should be compared to the curve to see if it appears

(40) \_\_\_\_\_. A common error is to not have the answer in the correct final

(41) \_\_\_\_\_.