Exam 1 practice problems

1. An unbiased sample statistic means that
   a. there is no sampling error
   b. sample statistics are equally likely to overestimate as underestimate population parameters.
   c. the sample is a perfect representation of the population
   d. none of the above

2. An example of a descriptive statistic would be
   a. a sample mean
   b. a population mean
   c. a graph
   d. all of the above

3. Which design would require the most participants if we wanted at least 20 participants per cell?
   a. a 3 x 2 completely between subjects factorial
   b. a 3 x 2 completely within subjects factorial
   c. a 3 x 2 mixed factorial
   d. all designs would require the same number of participants

4. A sample consists of n = 16 scores. How many scores are required to calculate the range?
   a. 2
   b. 4
   c. 16
   d. cannot be known

5. If our average squared deviation from a sample mean = 4, we know that
   a. our sum of squares = 4
   b. our range = 4
   c. our mean = 4
   d. our standard deviation = 4
   e. our variance = 4

6. An example of data measured on a nominal scale would be
   a. eye color
   b. class rank
   c. batting average
   d. # of absences

7. A researcher is curious about the average IQ of registered voters in the state of Florida. The entire group of registered voters in Florida is an example of a ___.
   a. sample
   b. statistic
   c. population
   d. parameter

8. If you think I have poor construct validity, you are probably concerned about my
   a. operational definition
   b. sampling method
   c. independent variable
   d. none of the above

9. If $n = 15$ and $\mu = 3$, then $\Sigma X =$
   a. 45
   b. 5
   c. .2
   d. cannot be known

10. If I use a bar graph, which type of data is probably being depicted?
    a. continuous
    b. discrete
    c. interval
    d. all of the above

11. If a distribution is symmetrical, we know that
    a. the distribution is normal
    b. the mean for that distribution equals the median
    c. the mean, median, and mode are all equal
    d. the distribution is skewed

12. If a z score is + 0.5, we can say for certain that
    a. that score is above the mean
    b. that score is positive
    c. that score is below the mean
    d. that score is an outlier
    e. both a and b are correct

Turn to the next page for the answers….

answers:

1 B
2 D
3 A
4 A
5 E
6 A
7 C
8 A
9 A
10 B
11 B
12 A