B+ 12/14

Form B Quiz on Unit One David Norman

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Summer, 2005

(1 pt. each)

refer 20

1. The words "percent" and "percentile" have very different things. Which one of the following two examples uses one of the words correctly?
   a) Billy's test score was at the 40th percentile because he missed more then half of the test questions.
   b) It must have been a difficult test because only two students got a score of 75 percent or higher. A

2. What percent of scores are less then the 25th percentile? 25%

3. If the VARIANCE is equal to 81 what is the value of the STANDARAD DEVIATION? 9

4. Calculate the **effect size** when : The **mean** of group one was 38 The **mean** of group two was 46. **The pooled standard deviation** was 18. (46-38)/18 = .44

5. Two researchers measured the reading rate of 110 students.
   The mean rate for the 60 girls was 36 units.
   The mean for the 50 boys was 30 units.
   Calculate the **weighted** group mean for the 110 students. 33.27
   60x36=2160; 50x30=1500; (2160+1500)/110 =

6. Calculate Bill's z-score if his score was 58 and the group Mean = 50 and group standard deviation = 20 .4
   (58-50)=8 8/20=

7. If the correlation was .40, what was the coefficient of determination? .16
   .4x.4=

8. Which correlation listed below indicated the weaker relatiohship? B
   A) r = -.35 B) r = +. 31

9. Which one of the following statements uses technical terms more correctly?
   a) Eighteen students were in the 75th percentile.
   b) Half of the students had scores within the interquartile range. B

10 If the regression equation was: GPA = 1.03 + 2.1 (Zema), calculate the predicted GPA for a Zema score of 0.7. (show work) 2.5

GPA = 1.03 + 2.1(.7)

GPA = 1.03 + 1.47

2.5 =

TQ

97 − 88 = 10
87 − 78 = 10
77 − 68 = 10
67 − 58 = 10

57 − 47 = 10
46 + 45 + 44 = 10(5) + 3 = 53

11. The SPSS output for a descriptive analysis is given below.

a) Which range was reported (inclusive or noninclusive) (indicate how you know)?

inclusive ½

97 − 44 = 53
max min

b) What was the reported value for skewness?

-.326

c) What percent of students had a score equal to or less than 73?

50%

d) If the distribution was close to a bell-shaped normal distribution, only slightly skewed) approximately 95% of the scores were within what two values? Show calculations.

½ 50.1268 − 95.8732

11.67 × 1.96 = 22.8732

22.8732 + 73 =

+3

TEACHEFF

N	Valid	60
	Missing	0
Mean		72.05
Median		73.00
Std. Deviation		11.67
Variance		136.18
Skewness		-.326
Std. Error of Skewness		.309
Range		53
Minimum		44
Maximum		97
Percentiles	25	63.75
	50	73.00
	75	80.00