

PSY 10 - Analysis of Psychological Data

Quiz # 11

Professor Depaoli

4/25/2017

Red Scantron Instructions

1. Use pencil to fill out your Scantron.
2. Bubble your name and ID number on front.
3. Do NOT put a zero before your ID number.
4. Use the same ID number as the first quiz (no extra zero).
5. Use the same name as the first quiz.
6. Make heavy, **dark** marks that fill the circle **completely** and **precisely**.
7. If you need to correct any answer, make sure you erase the original one **completely**.

Estimate Pearson's correlation coefficient and the corresponding measure of effect size using data in the following table (2 points each):

X	Y
1	6
2	4
3	4
2	2

Equations:

$$SS_X = \sum (X - M_X)^2$$

$$SS_Y = \sum (Y - M_Y)^2$$

$$SS_{XY} = \sum (X - M_X)(Y - M_Y)$$

$$\text{Pearson's } r = \frac{SS_{XY}}{\sqrt{(SS_X)(SS_Y)}}$$

$$\text{Coefficient of determination} = r^2$$

- What is SS_X ?
 (a) 8 (b) 4 (c) 2 (d) -2
- What is SS_Y ?
 (a) 8 (b) 4 (c) 2 (d) -2
- What is SS_{XY} ?
 (a) 8 (b) 4 (c) 2 (d) -2
- What is the Pearson correlation coefficient?
 (a) .50 (b) .13 (c) -.13 (d) -.50
- What is r^2 ?
 (a) .50 (b) .25 (c) .13 (d) .02

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