

PSY 10 - Analysis of Psychological Data

Quiz # 10

Professor Depaoli

4/18/2017

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**.

To test whether people spend more time texting under certain conditions, a researcher assigns 8 people to each of 3 conditions.

1. What are the df_{BG} ? (a) 2 (b) 3 (c) 7 (d) 23
2. What are the df_E ? (a) 3 (b) 21 (c) 23 (d) 24
3. What are the df_T ? (a) 2 (b) 7 (c) 21 (d) 23
4. What is MS_{BG} ? (a) 1.79 (b) 5.88 (c) 13.72 (d) 20.59
5. What is MS_E ? (a) 3.84 (b) 4.02 (c) 4.39 (d) 30.74
6. What is F_{obt} ? (a) 5.36 (b) 4.69 (c) 3.13 (d) 0.45
7. What is the decision?
 - (a) Accept H_0
 - (b) Fail to Reject H_0
 - (c) Reject H_0
 - (d) Reject H_1
8. What is eta-squared?
 - (a) 2.24
 - (b) 0.69
 - (c) 0.45
 - (d) 0.31

Equation: $\eta^2 = \frac{SS_{BG}}{SS_T}$

Source	SS	df	MS	F
Between Groups	41.17	$k - 1$	SS_{BG}/df_{BG}	MS_{BG}/MS_E
Within Groups (error)	92.23	$N - k$	SS_E/df_E	
Total	133.40	$N - 1$		

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