

PSYC 3330: Elem Stats for Behav Sci

Tarleton State University

Week 12

Fall 2017

1. Given the data below (learning performance under three temperature conditions), determine if a significant difference exists between the conditions.

50°	70°	90°
0	4	1
1	3	2
3	6	2
1	3	0
0	4	0

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2. Is there any significant difference in the effectiveness of the three pain-relief drugs tested below?

Placebo	Drug A	Drug B	Drug C	
3	4	6	7	$N = 20$
0	3	3	6	$G = 60$
2	1	4	5	$\sum X^2 = 262$
0	1	3	4	
0	1	4	3	
$T = 5$	$T = 10$	$T = 20$	$T = 25$	
$SS = 8$	$SS = 8$	$SS = 6$	$SS = 10$	

3. Determine if there is any significant difference in the treatments below:

Treatment 1	Treatment 2	Treatment 3	
$n = 10$	$n = 10$	$n = 10$	$N = 30$
$T = 10$	$T = 20$	$T = 30$	$G = 60$
$SS = 27$	$SS = 16$	$SS = 23$	$\sum X^2 = 206$