

Carlina E. Lahoz Ogando
 EDG500 Educational Research & Statistics
 Professor Bennett Schepkens
 April 4, 2023
 Chapter 15

Descriptives

Reported Pain

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Low Dosage	3	7.0000	1.00000	.57735	4.5159	9.4841	6.00	8.00
Moderate Dosage	3	5.6667	2.08167	1.20185	.4955	10.8378	4.00	8.00
High Dosage	3	2.0000	1.00000	.57735	-.4841	4.4841	1.00	3.00
Total	9	4.8889	2.57121	.85707	2.9125	6.8653	1.00	8.00

ANOVA

Reported Pain

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	40.222	2	20.111	9.526	.014
Within Groups	12.667	6	2.111		
Total	52.889	8			

Exercise 15

Descriptives

Hours of Internet Usage (Weekly)

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Low SES	4	10.0000	1.82574	.91287	7.0948	12.9052	8.00	12.00
Middle SES	4	12.2500	1.70783	.85391	9.5325	14.9675	10.00	14.00
High SES	4	12.0000	2.16025	1.08012	8.5626	15.4374	10.00	15.00
Total	12	11.4167	2.02073	.58333	10.1328	12.7006	8.00	15.00

ANOVA

Hours of Internet Usage (Weekly)

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	12.167	2	6.083	1.672	.241
Within Groups	32.750	9	3.639		
Total	44.917	11			

- What is the mean for the low-SES group? -it is 10.00
- What is the mean for the middle-SES group? -it is 12.25
- What is the mean for the High-SES group? -it is 12.00
- What is the value of F? -it is 1.672
- What is the value of the associated probability? -it is .241
- Are the differences among the means for the SES groups statistically significant at the .05 level? -it is significant.
- Write a statement of the results of the significance test. -Internet use was reported on a scale on which low-SES indicated low hours of internet usage. For the High-SES, the mean reported Internet usage level was 12.00 (sd=3.00). The mean hours of

Internet usage for the Middle-SES and low-SES groups were 12.25 (sd=2.00) and 10.00 (sd=1.00), respectively. The difference among the means are statistically significant at the .05 level ($F [2,9] = 1.672, p = .241$)