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EDG 500

April 1,2023

	Experimental and control groups	N	Mean	Std. Deviation	Std. Error Mean
Attitude toward drinking and driving	Experimental group	7	10.5714	1.61835	0.61168
	Control group	5	13.8000	2.28035	1.01980

	Levene's test for equality of variances		T test for equality of means							
					Significance			95% confidence interval of the difference		
	F	Sig.	t	df	One sided p	Two sided p	Mean difference	Std. error difference	Lower	Upper

Attitude toward drinking and driving	Equal Variances	0.071	0.795	-2.886	10	0.008	0.016	-3.22857	1.11889	-5.72162	-0.73553
	Equal variances not assumed			-2.715	6.808	.015	.031	-3.22857	1.18918	-6.05666	-.40048

	Experimental and control group	N	Mean	Std. Deviation	Std. Error Mean
Calculus final examination score	Experimental group	5	30.6000	4.87852	2.18174
	Control group	5	30.8000	3.56371	1.59374

	Levene's Test for Equality of Variance			T test for equality of means					
								95% confidence interval of the difference	
	F	Sig.	t	df	Significance One sided p	Significance Two sided p	Mean diffence	Std. Error Difference	Lower	Upper

Calculus final examination scores	Equal variance assumed	0.675	0.435	-.074	8	.471	.943	-.20000	2.70185	-6.43048	6.03048
	Equal variances not assumed			-.074	7.323	.471	.943	-.20000	2.70185	-6.53222	6.13222

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- **What is the mean for the experimental group?** 30.6000
- **What is the mean for the control group?** 30.8000
- **What is the value of t?** -.074
- **What is the associated probability ?** .943
- **Is the difference between the experimental groups means and the control group's mean statistically at the .05 level?** The experimental group had lower scores (m=30.6000, sd= 4.87) than the control group (m= 30.8000, sd= 3.56). The difference between the two means is statistically significant at the .05 level (t= -.074, df = 8).
- Write a statement of the results of the significance test. The experimental group had lower scores (m=30.6000, sd= 4.87) than the control group (m= 30.8000, sd= 3.56). The difference between the two means is statistically significant at the .05 level (t= -.074, df = 8).