

Answers to additional business exercises

Chapter 17 T-tests

Follow the procedures in the section on independent samples t-tests to compare the mean staff satisfaction scores (*totsatis*) for permanent and casual staff (*employstatus*).

T-Test

Group Statistics

	employstatus employment status	N	Mean	Std. Deviation	Std. Error Mean
totsatis	1 permanent	303	33.93	7.088	.407
	2 casual	176	34.19	7.020	.529

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
totsatis	Equal variances assumed	.082	.775	-.379	477	.705	-.254	.669	-1.569	1.062
	Equal variances not assumed			-.380	368.674	.704	-.254	.668	-1.566	1.059

An independent-samples t-test was conducted to compare the staff satisfaction scores for permanent and casual staff. There was no significant difference in scores for permanent staff ($M=33.93$, $SD=7.09$) and casual staff ($M=34.19$, $SD=7.02$; $t(477)=-.38$, $p=.71$).