

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 ($M=34.19$, $SD=7.02$; $t(477)=-.38$, $p=.71$).