Correlation

Spearman's rank correlation co-efficient

The calculated value is **less** than the critical value. The probability of the correlation being due to chance is **greater** than 5%. **Accept** the null hypothesis. *There **is no significant** correlation between ..... and .....*

OR

The calculated value is **greater** than the critical value. The probability of the correlation being due to chance is **less** than 5%. **Reject** the null hypothesis. *There **is a significant** correlation between ..... and .....*

Difference between 2 means

SD bars

The SD bars **overlap**. It is **likely** that the difference is due to change. There is **no** significant difference

OR

The SD bars **do not overlap**. It is **unikely** that the difference is due to change. There **is a** significant difference

Students t test

The calculated value is **less** than the critical value. The probability of the difference being due to chance is **greater** than 5%. **Accept** the null hypothesis. *There **is no significant** difference between ..... and .....*

OR

The calculated value is **greater** than the critical value. The probability of the difference being due to chance is **less** than 5%. **Reject** the null hypothesis. *There **is a significant** difference between ..... and .....*

Difference between observed and expected distributions

Chi^2 test

The calculated value is **less** than the critical value. The probability of the difference between observed and expected results being due tc chance is **greater** than 5%. **Accept** the null hypothesis. *There **is no significant** difference between observed and expected results.*

OR

The calculated value is **greater** than the critical value. The probability of the difference between observed and expected results being due to chance is **less** than 5%. **Reject** the null hypothesis. *There **is a significant** difference between observed and expected results*