

## CH 8: HYPOTHESIS TESTING

Minitab provides certain functions to assist you in performing a Hypothesis Test. This assistance consists in the calculation of the p-value and of the  $z$  or  $t$  value. All other steps of Hypothesis Testing must still be performed.

The functions that calculate the p-values and the  $z/t$  values are the same as the ones used for the calculation of the Confidence Intervals (see section 7 above)

The only differences are in the input. Specifically:

1. In all three functions you must enter the appropriate hypothesized parameter (mean or proportion) for which you are performing the test.
2. In all three functions you need to set correctly the **Alternative** parameter depending on whether you have a left-tailed, right-tailed or two-tailed test.

All three output the results in the session window and they all include the calculated p-value and the  $t / z$  value. It is up to you to interpret the numbers correctly in deciding whether to reject or not reject the Null Hypothesis and to formulate the conclusion correctly.