

1. A researcher wants to know if there is a difference in the wind speed (measured in km/h) of Nelson Mandela Bay ( $X$ ) and Cape Town ( $Y$ ) during the winter months. It can be assumed that  $X$  and  $Y$  is normally distributed. Consider the given information below: / 'n Navorsers wil weet of die windspoed (gemeet in km/h) van Nelson Mandela Baai ( $X$ ) en Kaapstad ( $Y$ ) tydens die winter maande verskil. Dit kan aanvaar word dat  $X$  en  $Y$  normaal verdeeld is. Beskou die onderstaande inligting:

$$\begin{array}{ll} \bar{X} = 36.7 & \bar{Y} = 26.8 \\ s_X^2 = 11.56 & s_Y^2 = 88.36 \\ n = 6 & \end{array}$$

- 1.1 Use an appropriate statistical test to determine if the variances of the two locations differ. Use a 5% significance level. Complete questions (a) to (d) for the steps of the hypothesis test. / Gebruik 'n gepaste statistiese toets om te bepaal of die variansies van die twee liggings verskil. Gebruik 'n 5% betekenispeil. Voltooi vrae (a) tot (d) vir die stappe van die hipotesetoets.

- a) Give the null and the alternative hypothesis. / Gee die nul-en alternatiewe hipotese.

$$\begin{array}{l} H_0: \sigma_X^2 = \sigma_Y^2 \\ H_1: \sigma_X^2 \neq \sigma_Y^2 \end{array}$$

- b) Calculate the test statistic. / Bereken die toetsstatistiek.

$$F = \frac{s_Y^2}{s_X^2} = \frac{88.36}{11.56} = 7.644$$

- c) Give the critical value. / Gee die kritieke waarde.

$$F_{0.05(2);5;5} = 7.15$$

- d) Conclude the hypothesis test. / Sluit die hipotesetoets af.

$$F = 7.644 > F_{0.05(2);5;5} = 7.15$$

Reject the null hypothesis at 5%. The population variances are not equal. / Verwerp die nulhipotese by 'n 5% betekenispeil. Die populasie variansies is nie gelyk nie.

An independent two-sample  $t$  test assuming unequal variances, i.e. the Behrens Fisher approximation, must be used in (6.2). / 'n Onafhanklike tweesteekproef  $t$ -toets met die aanname van ongelyke variansies, d.w.s. die Behrens Fisher benadering, moet in (6.2) gebruik word.

# Hypothesis Testing Practical Memo

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