

GROUP DESIGNS – SINGLE SAMPLES

THE Z1 TEST

- The Dependent Variable must be continuous: **INTERVAL/RATIO**
- This is a groups design: we are comparing the results of populations
 - We are given the mean of the (general) population group
 - **We draw only ONE sample here**
 - We are comparing the mean of the sample to the population mean
- We are given the following information:
 - The population mean under H_0
 - The standard deviation – usually the standard deviation of individual scores – i.e. the standard deviation was found from the large, representative sample of subjects and this is **NOT** the standard deviation of the sampling distribution of means
 - The mean of the sampling group: make the following assumptions:
 - The scores in the 2 populations in question are normally distributed
 - The 2 populations have the same standard deviation
 - Our sample has been randomly selected
- The statistical hypotheses, for example
 - The $H_0: \mu = 100$
 - The $H1: \mu > 100$ (directional)
 - The $H1: \mu \neq 100$ (non-directional or two-tailed)
 - **REMEMBER:** the Z-table gives one-tailed hypothesis. If $H1$ is non-directional, double the p-value
- Convert the raw score (the mean of your sample) into a z-score, using this
 - To get the numerator of the equation: $\bar{x} - \mu$
(The sample mean) – (the population mean under H_0)
 - To get the denominator of the equation: $\sigma/\sqrt{n}$
Convert the standard deviation of the population scores into the standard deviation of the sampling distribution of the means; divide the value by the square root of the sample size
- Now you have the z-score – you need to go and find the p-value
- Apply the decision rule
 - If the p-value is smaller than alpha (α), reject H_0
 - If the p-value is larger than alpha, you can't reject H_0

THE FORMULA

$$z_1 = \frac{(\bar{x} - \mu_0)}{\frac{\sigma}{\sqrt{n}}}$$

THE T1 TEST

- The Dependent Variable must be continuous: **INTERVAL/RATIO**
- The same as $Z1$ = single sample is used
- The **DIFFERENCE**
 - The **Standard deviation is UNKNOWN**
 - Therefore we can **NOT** use the z-statistic
 - We use the standard deviation of the sample to calculate the denominator of the T-statistic equation!
 - We use the computer to get a p-value

THE FORMULA

$$t_1 = \frac{(\bar{x} - \mu_0)}{s_1}$$

THE Z2 TEST

The scale of measurement is **CATEGORICAL** (Nominal/categorical) for example: gender

- The statistical hypothesis is about the **POPULATION PROPORTION** and not about the population mean!
- A proportion is a percentage of a population
- The population parameter is the population proportion (P_0)
- The statistical hypothesis (example):
 - $H_0: P = 0,6$
 - $H_1: P > 0,6$
- There are cases where it's obvious that the alternative hypothesis cannot be favoured by simply looking at the sample proportion: we then accept the H_0
- The computer will calculate the associated p-value
 - Remember: the computer gives a two-tailed p-value
 - If your alternative hypothesis is directional, then you have to halve the value before you can interpret it
- Apply the decision rule
- **THE FORMULA**

$$z_2 = \frac{(p - P_0)}{\sqrt{P(1 - P_0)/n}}$$

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