**Conclusions and Error Types**

**Conclusions**

* If there is sufficient evidence to reject the null hypothesis, we conclude the alternative hypothesis is true.
* If there is not sufficient evidence to reject the null hypothesis, we conclude the null hypothesis **might** be true **BUT** we can never conclude that the null hypothesis is true.
* You can base your conclusion on the Level of significance (α) and the p-value. Remember the level of significance can be determined from the level of confidence

(level of significance (α) = 1- level of confidence (c))

**To conclude your results:**

* If p ≤ α, reject the null hypothesis (Ha is true)
* If p > α, fail to reject the null hypothesis (H₀ is true)

The way I remember these rule about rejecting the null is below (I know it is silly but it helps)

***People (p) eat (≤) fish (α) from the River Nile (reject null)***

**How to draw a conclusion at the end of the complete problems**

