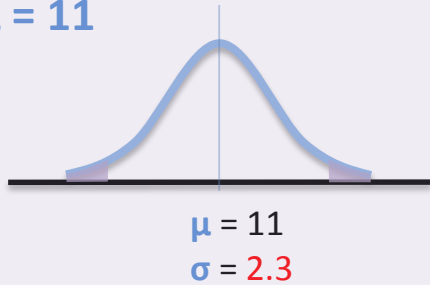


R-Square as Proportion of Variance Explained

Visual Guide

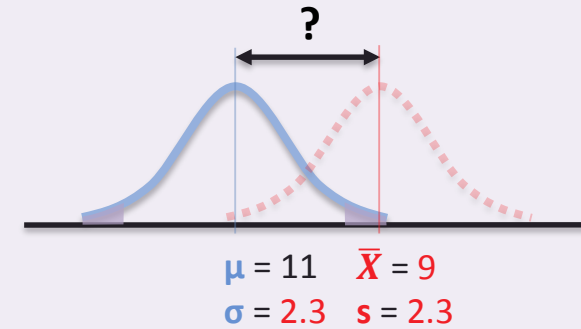
H_0 : Boxers live 11 years

$$H_0: \mu = 11$$

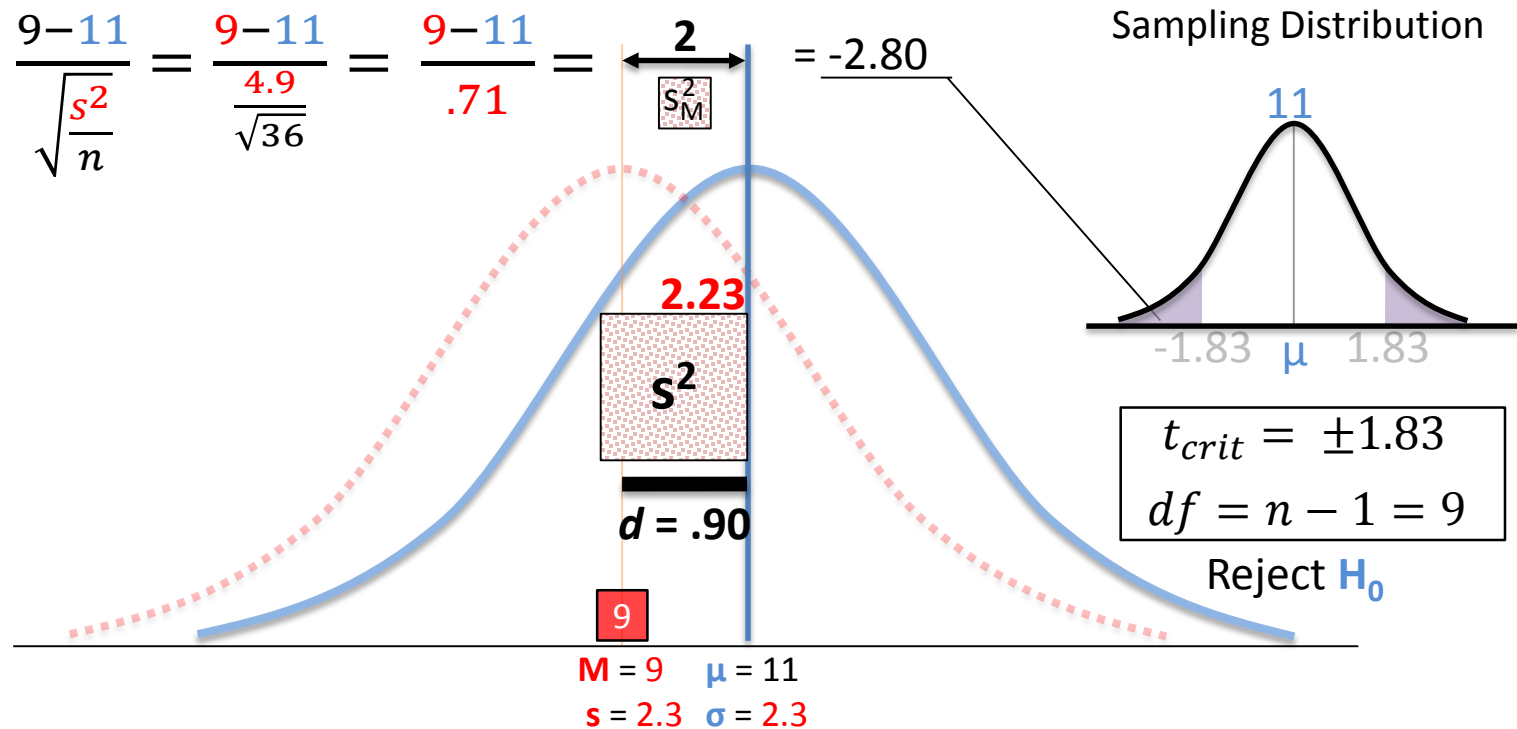


H_1 : No, something else

$$H_1: \mu \neq 11$$



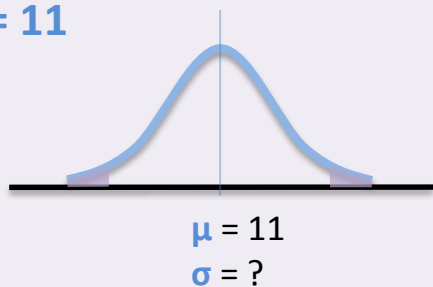
$$t = \frac{\bar{X} - \mu}{s_M} = \frac{9 - 11}{\sqrt{\frac{s^2}{n}}} = \frac{9 - 11}{\frac{4.9}{\sqrt{36}}} = \frac{9 - 11}{.71} = \frac{-2}{.71} = -2.80$$



One-sample t-test indicated that boxers ($M = 9$, $s = 2.23$, $n = 10$) live significantly less than 11 years, $t(9) = -2.80$, $p < .05$, $SEM = 0.71$, , Cohen's $D = 0.90$.

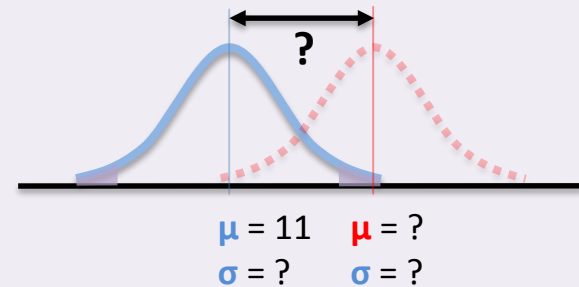
H_0 : Boxers live 11 years

$H_0: \mu = 11$

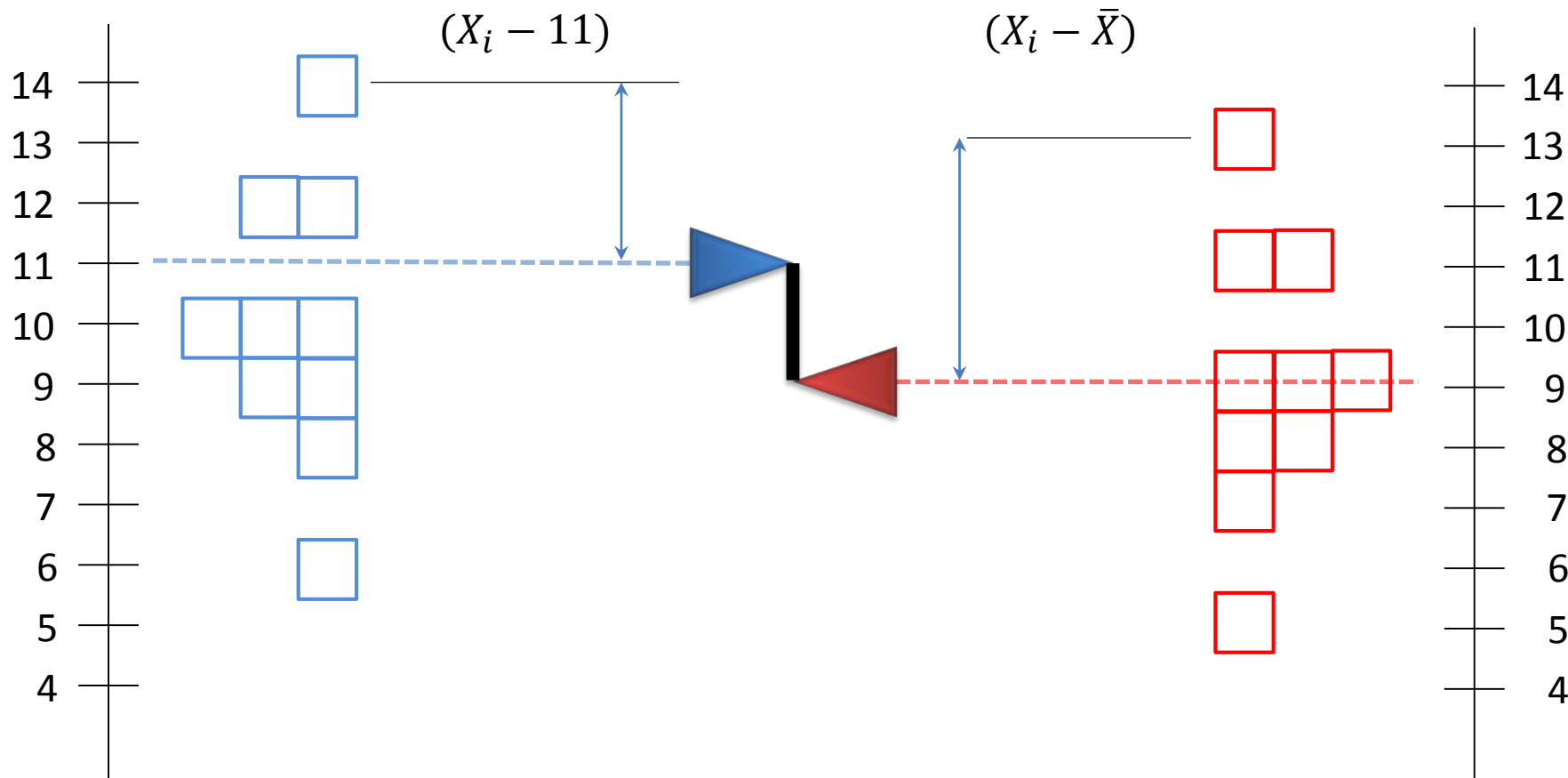


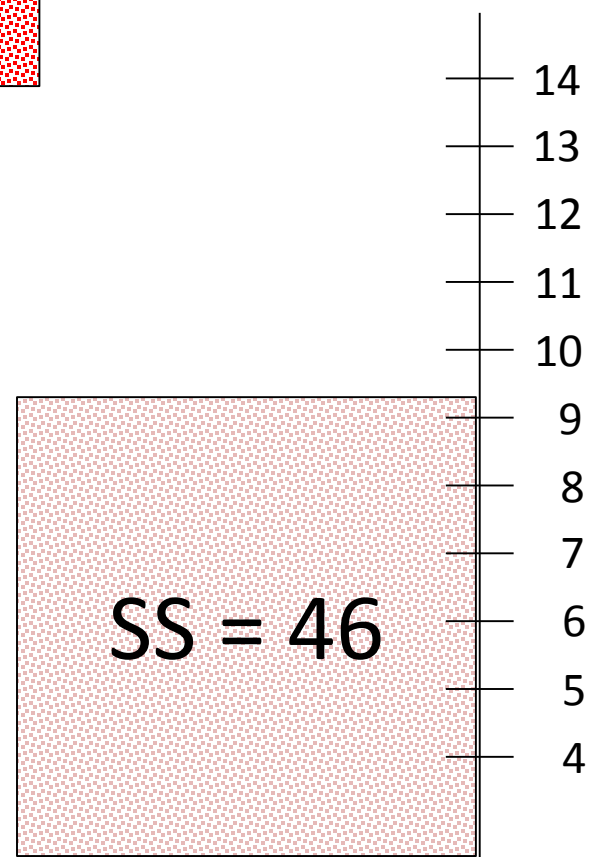
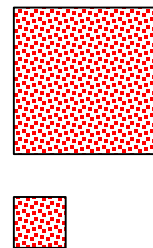
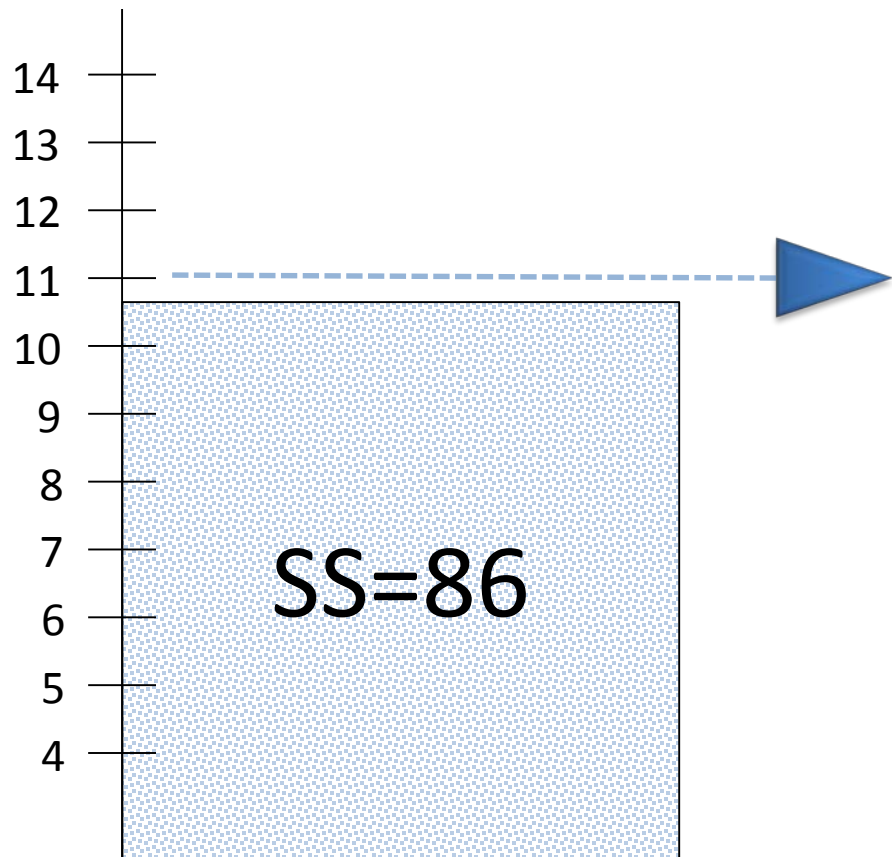
H_1 : No, something else

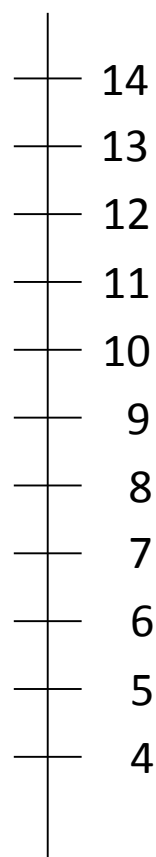
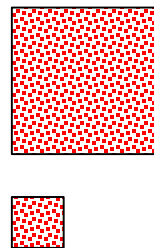
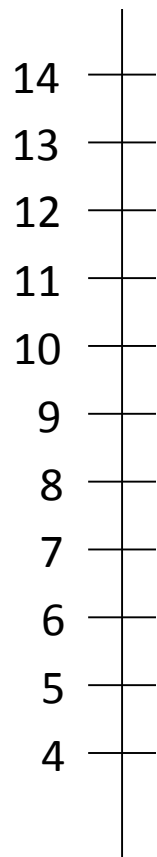
$H_1: \mu \neq 11$



R²

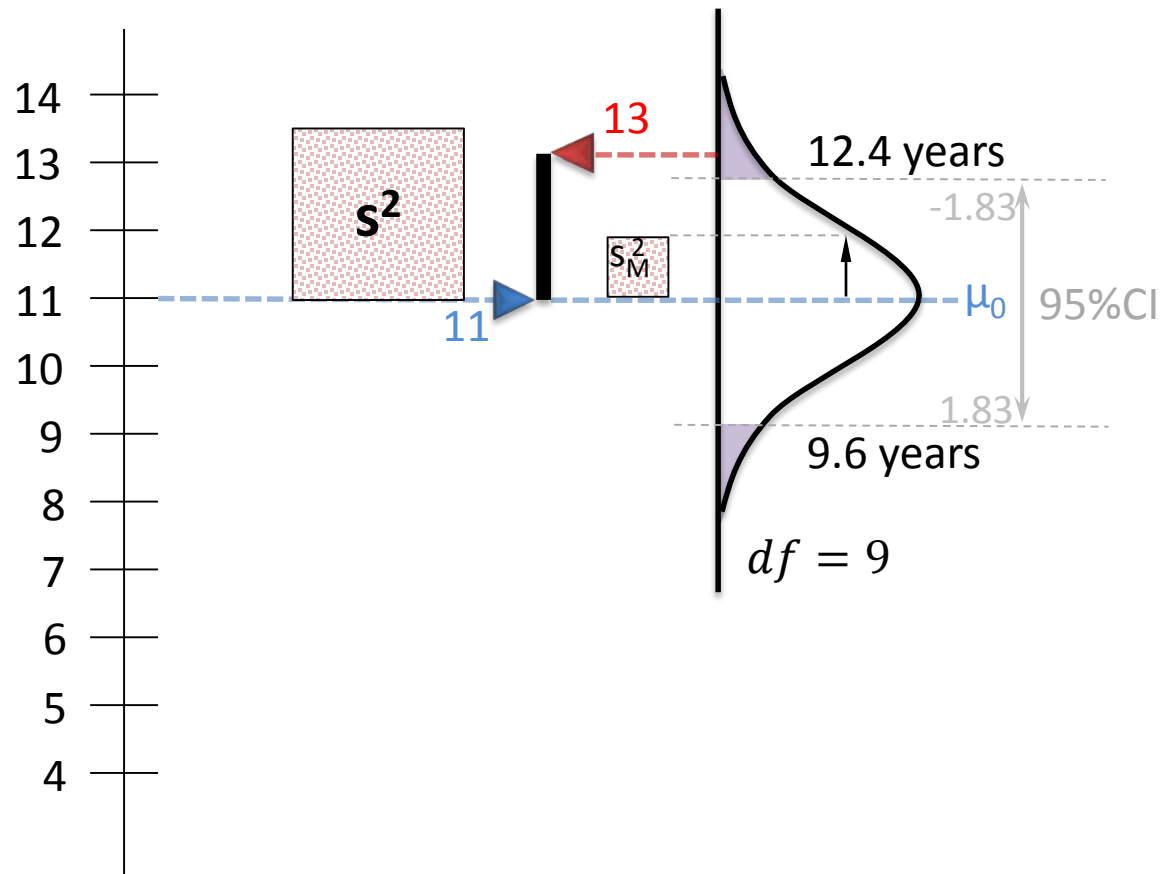








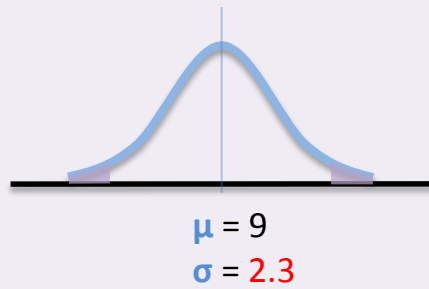
Do poodles live about 11 years?



1.83

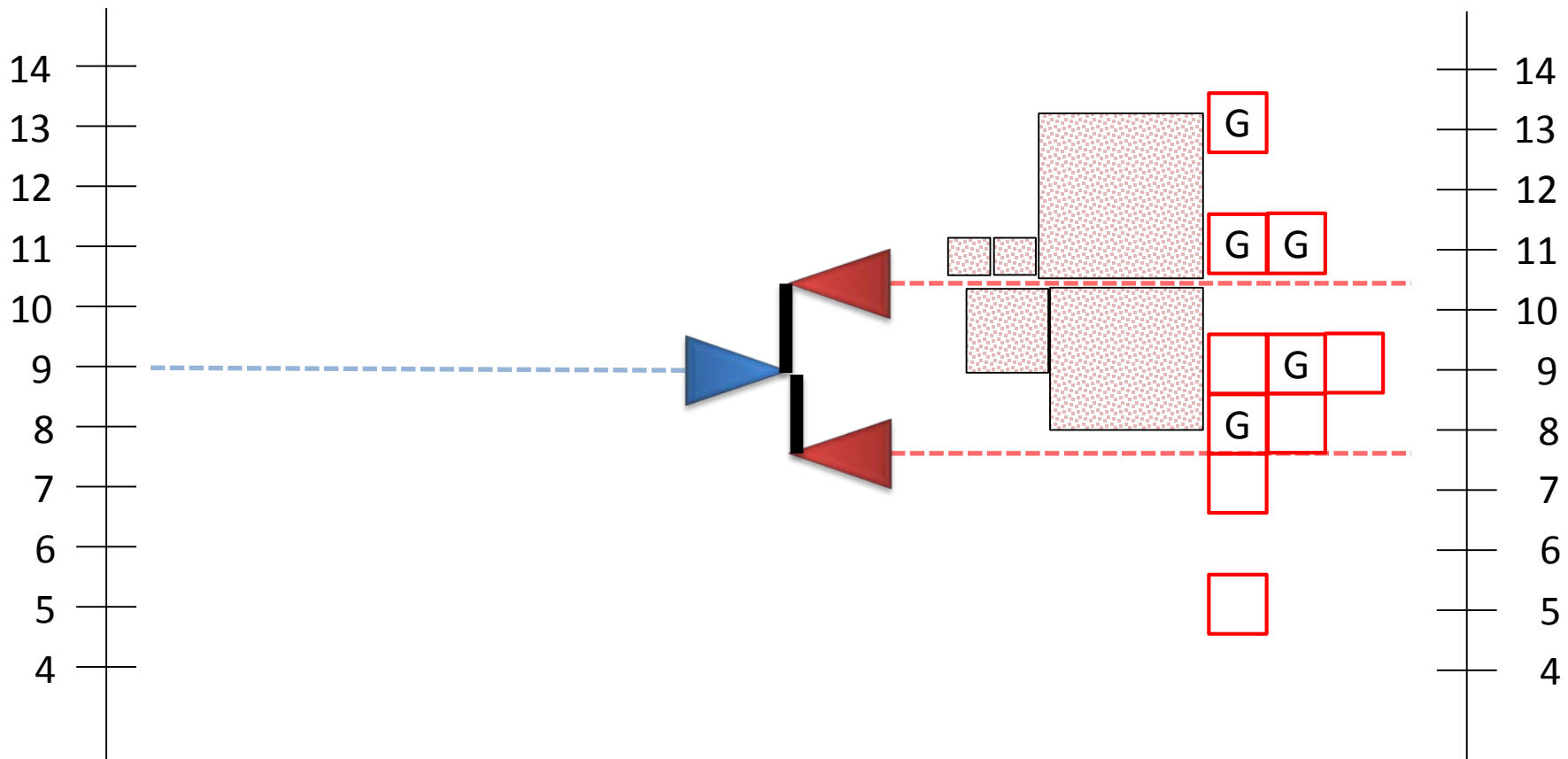
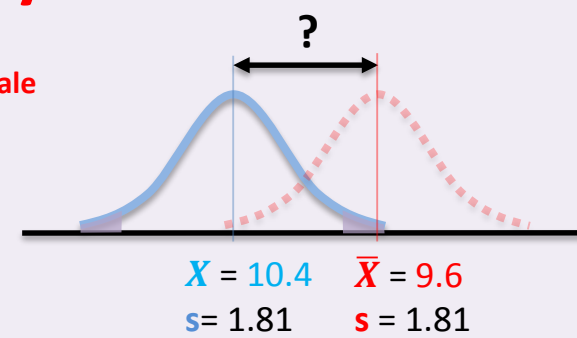
H_0 : Males Boxers live as long as Females

$$H_0 : \mu_{\text{male}} = \mu_{\text{female}}$$



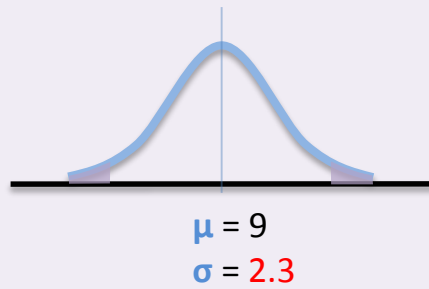
H_1 : No, they are different

$$H_1 : \mu_{\text{male}} \neq \mu_{\text{female}}$$



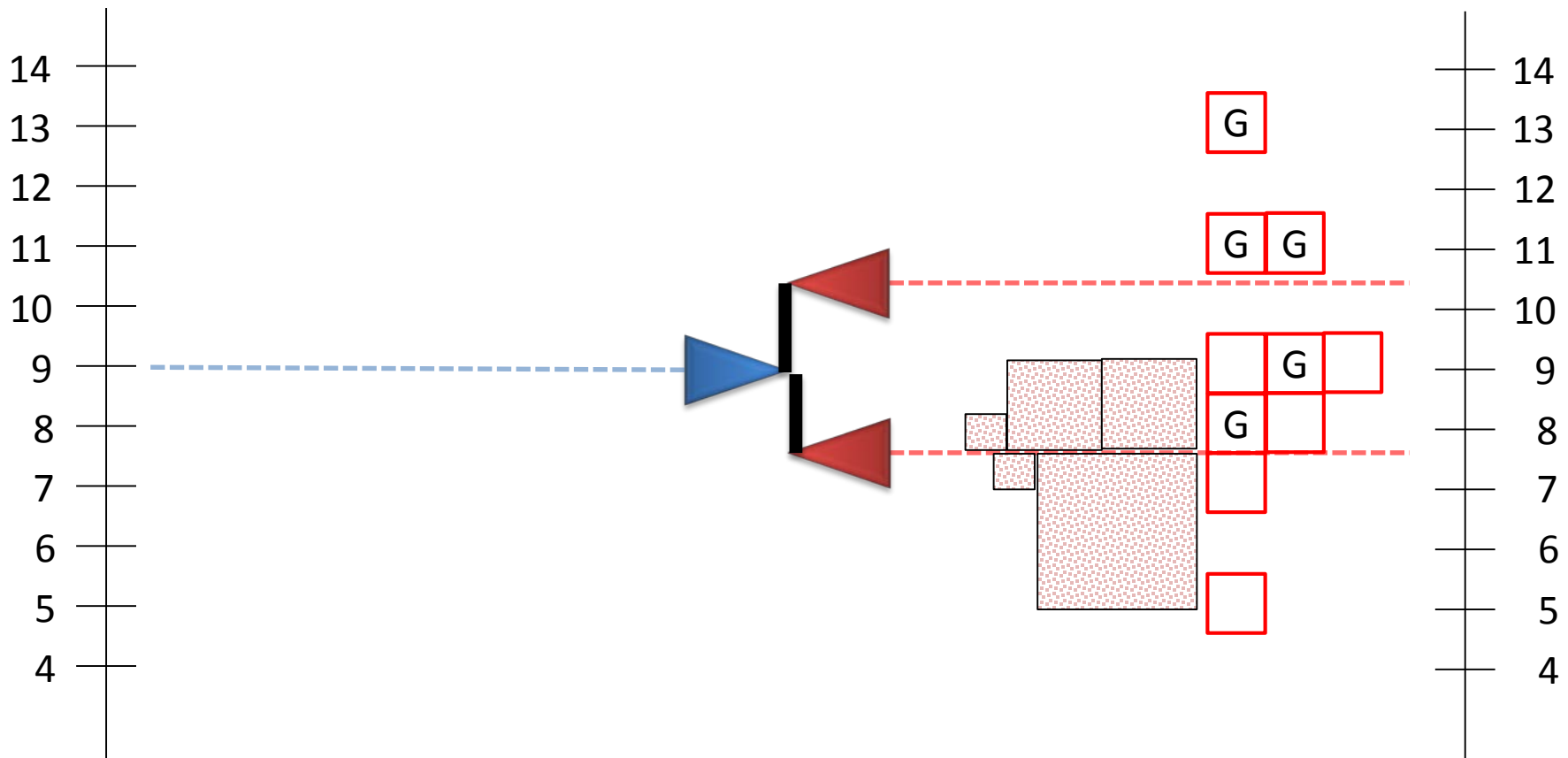
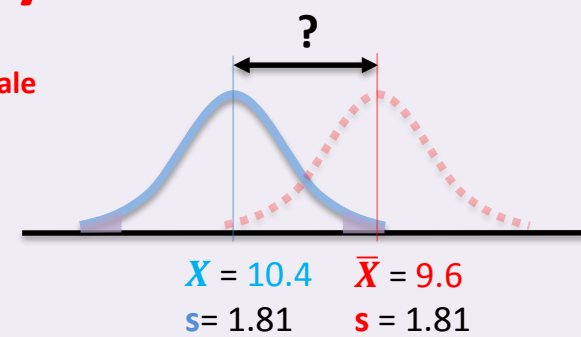
H_0 : Males Boxers live as long as Females

$$H_0: \mu_{\text{male}} = \mu_{\text{female}}$$



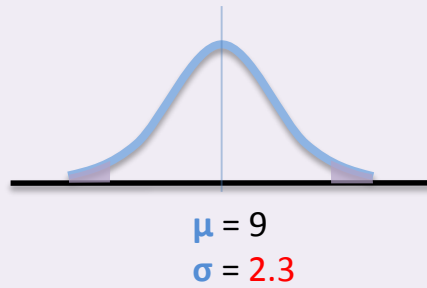
H_1 : No, they are different

$$H_1: \mu_{\text{male}} \neq \mu_{\text{female}}$$



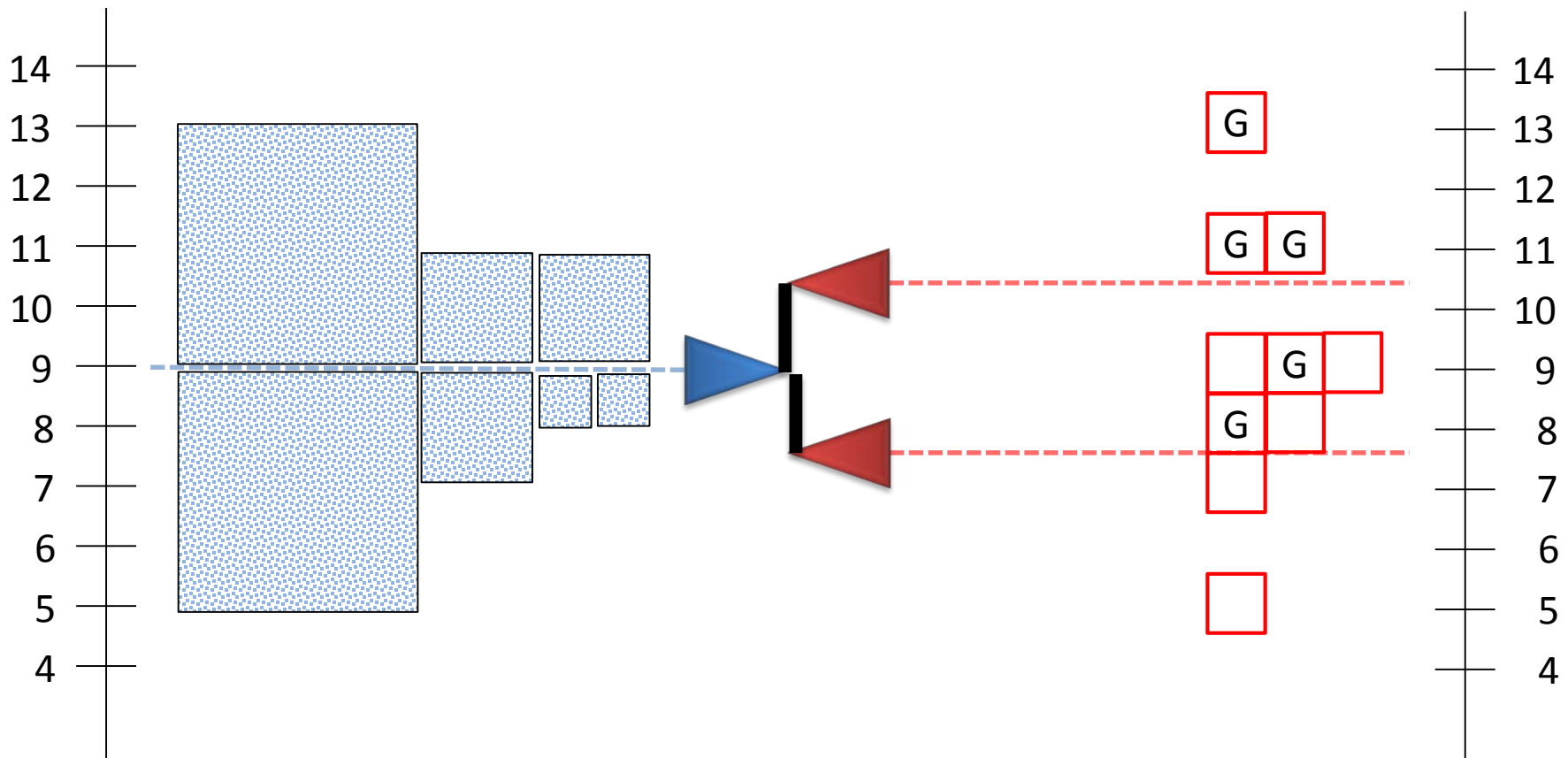
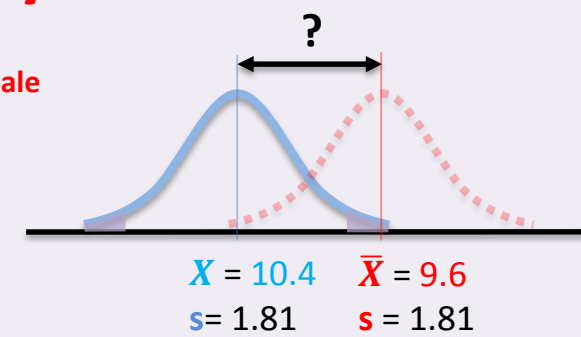
H_0 : Males Boxers live as long as Females

$$H_0 : \mu_{\text{male}} = \mu_{\text{female}}$$



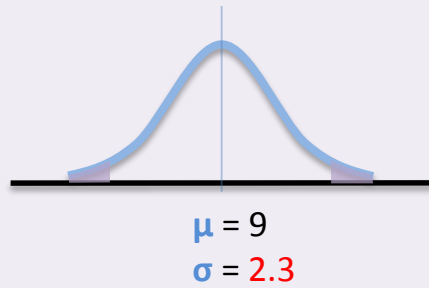
H_1 : No, they are different

$$H_1 : \mu_{\text{male}} \neq \mu_{\text{female}}$$



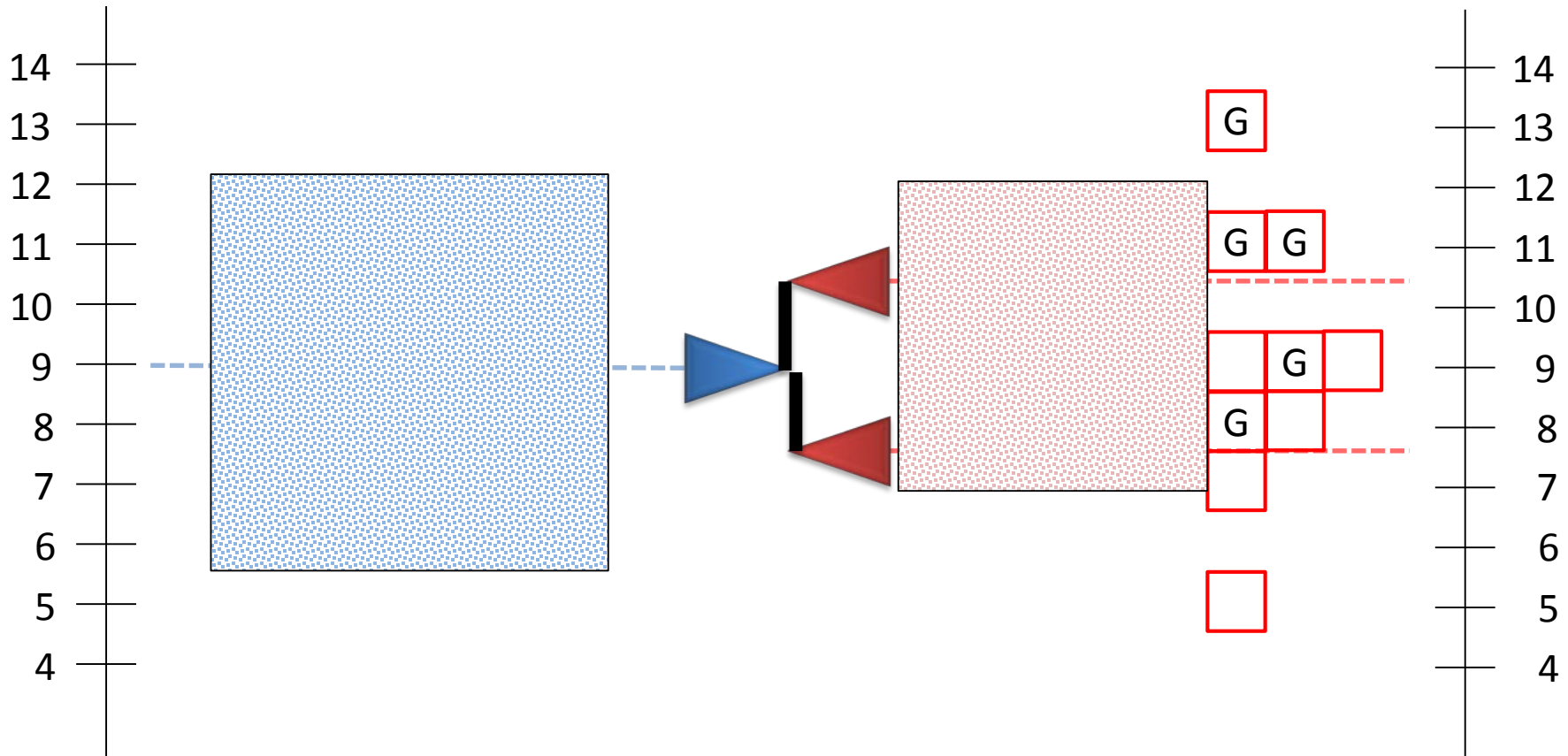
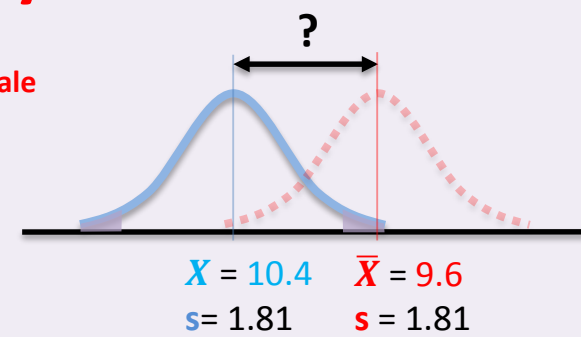
H_0 : Males Boxers live as long as Females

$$H_0: \mu_{\text{male}} = \mu_{\text{female}}$$



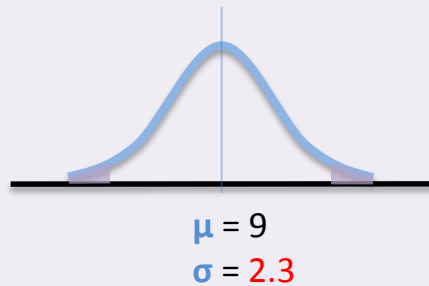
H_1 : No, they are different

$$H_1: \mu_{\text{male}} \neq \mu_{\text{female}}$$



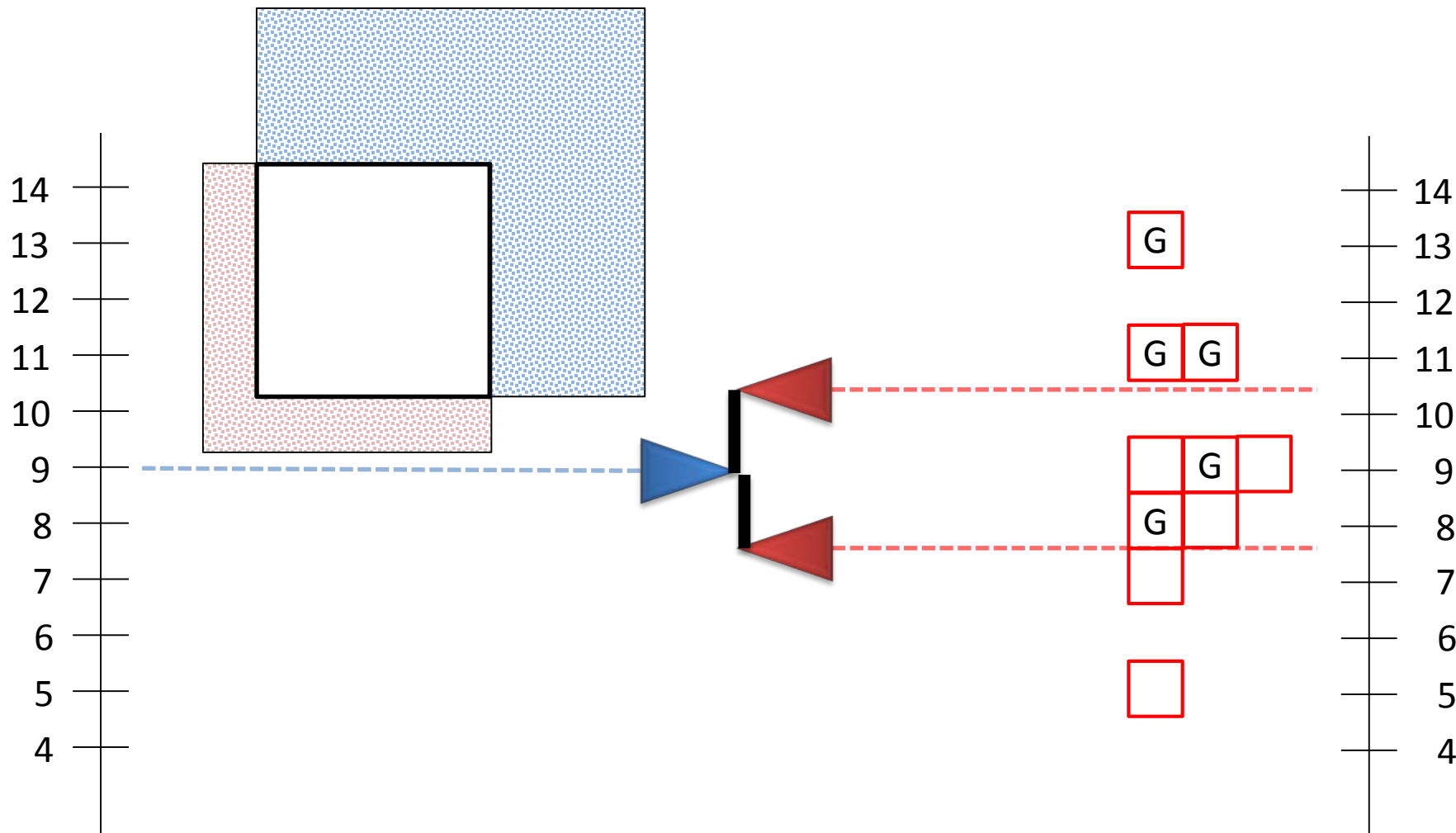
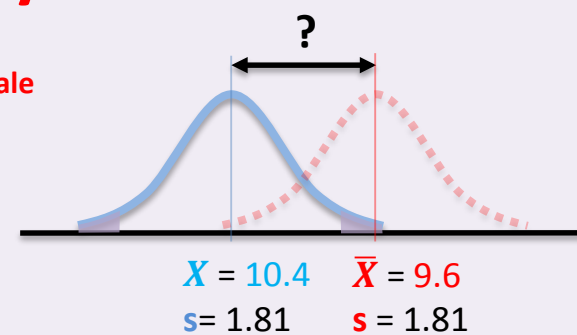
 H_0 : Males Boxers live as long as Females

$$H_0 : \mu_{\text{male}} = \mu_{\text{female}}$$



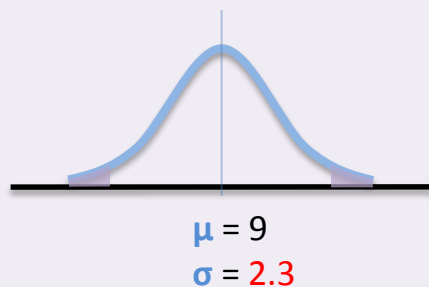
H_1 : No, they are different

$$H_1 : \mu_{\text{male}} \neq \mu_{\text{female}}$$



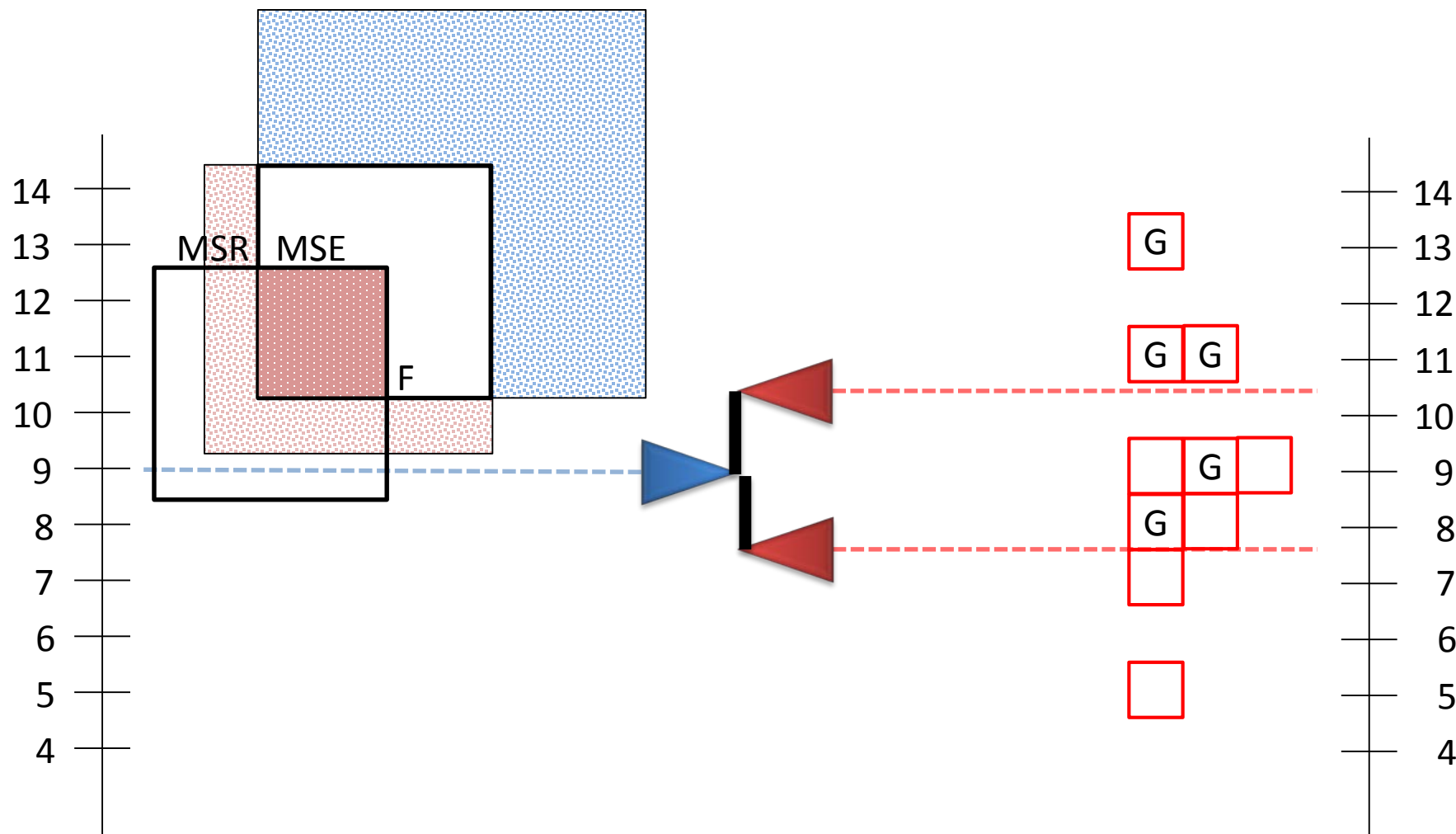
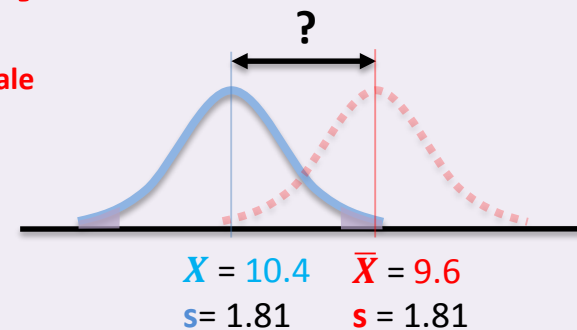
 H_0 : Males Boxers live as long as Females

$$H_0 : \mu_{\text{male}} = \mu_{\text{female}}$$

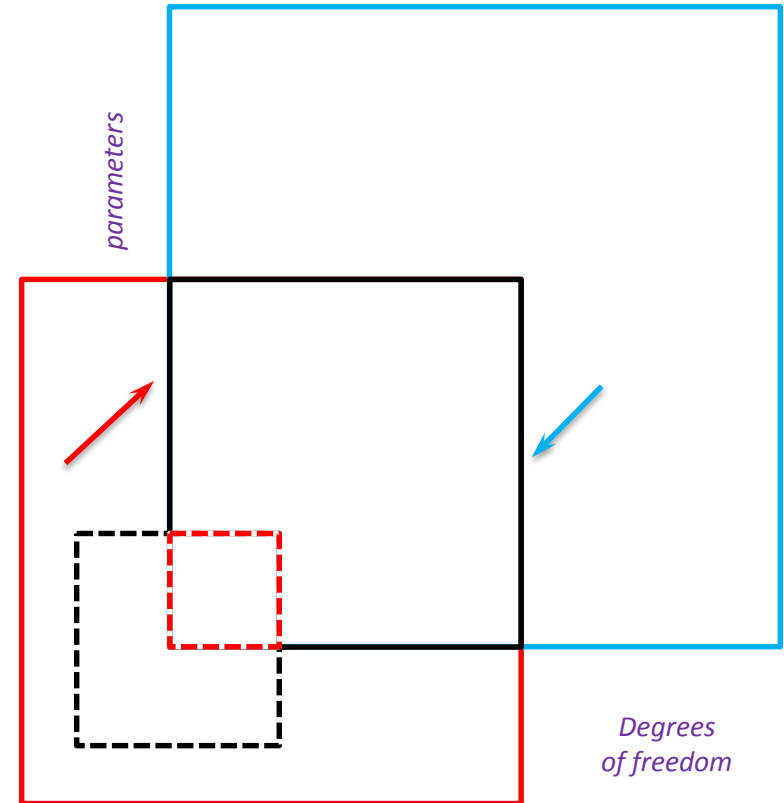
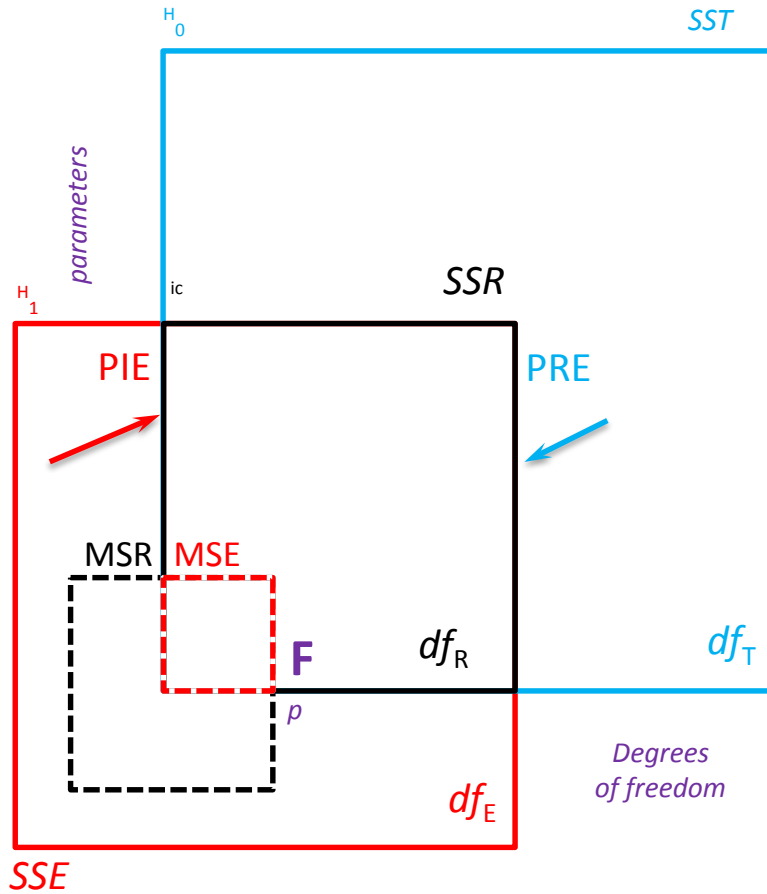


H_1 : No, they are different

$$H_1 : \mu_{\text{male}} \neq \mu_{\text{female}}$$



ANOVA results table



Schematics. Print out and fill in with your own numbers