Ability = Intercept + β 1(Double Espresso) + β 2(Single Espresso) + ε

We want to calculate $\beta 1$ and $\beta 2$

The intercept is 4.817 (which is the mean of our Water group), $\beta 1$ is 4.2, and $\beta 2$ is 1.87

To work out the mean Ability of our Double Espresso Group:

Ability = Intercept + β 1(Double Espresso) + β 2(Single Espresso) + ε

Ability =
$$4.82 + 4.2(1) + 1.87(0) + \varepsilon$$

Ability =
$$4.82 + 4.2 + \varepsilon$$

Ability =
$$9.02 + \varepsilon$$