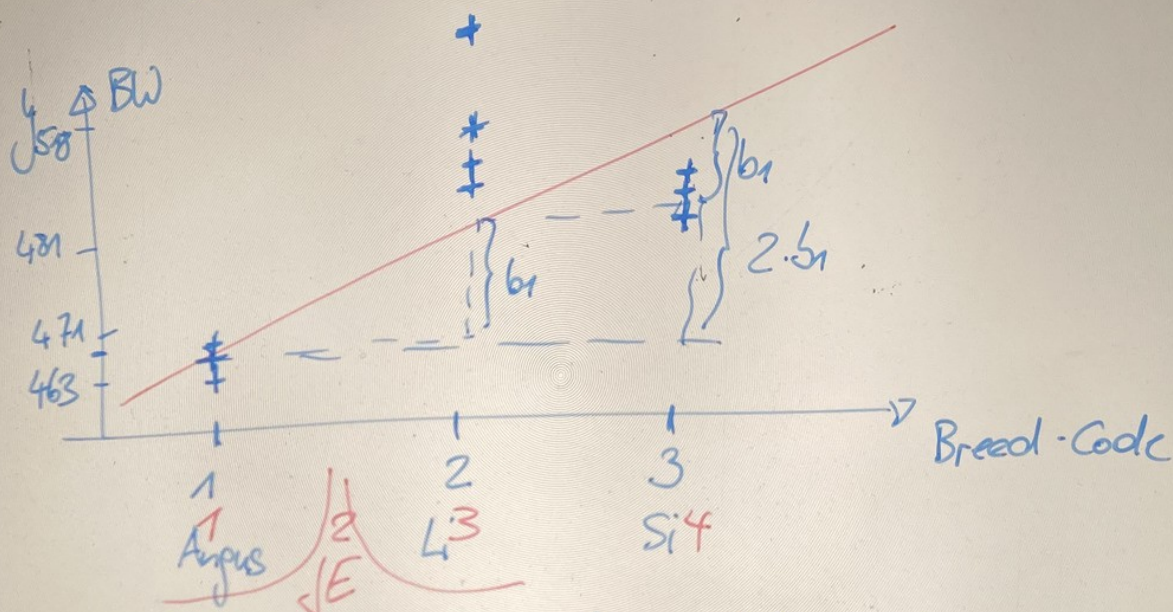


□ Assign "numbers" (code) to breeds

(5)

code	Breed
1	Angus
2	Limousin
3	Simmental



$$\left. \begin{aligned} E(y_1) &= b_0 + b_1 \cdot 1 \\ E(y_2) &= b_0 + b_1 \cdot 1 \\ E(y_3) &= b_0 + b_1 \cdot 3 \\ E(y_0) &= b_0 + b_1 \cdot 2 \end{aligned} \right\}$$

$$\begin{aligned} E(y_3) - E(y_1) &= b_0 + b_1 \cdot 3 \\ &\quad - b_0 + b_1 \cdot 1 \\ &= 2b_1 \end{aligned}$$

$$\begin{aligned} E(y_3) - E(y_0) &= b_0 + b_1 \cdot 3 \\ &\quad - b_0 - b_1 \cdot 2 \\ &= b_1 \end{aligned}$$

$$\begin{aligned} E(y_3) - E(y_0) &= b_0 + b_1 \cdot 3 - b_0 - b_1 \cdot 2 \\ &= b_1 \end{aligned}$$