

$$\alpha \sim \text{Normal}(171.1, 20)$$

$$\beta \sim \text{Normal}(0, 10)$$

$$\mu_i = \alpha + \beta(x_i - \bar{x})$$

$$\sigma \sim \text{Uniform}(0, 50)$$

$$h[i] \sim \text{Normal}(\mu_i, \sigma)$$