

## Easy

### E1

$y_i \sim \text{Normal}(\mu, \sigma)$  is the likelihood.

### E2

There are two parameters:  $\mu$  and  $\sigma$ .

### E3

$$[\mu, \sigma \mid y] \propto \prod_i^n \text{Normal}(y_i \mid \mu, \sigma) \times \\ \text{Normal}(\mu \mid 0, 10) \times \\ \text{Uniform}(\sigma \mid 0, 10)$$

### E4

$\mu_i = \alpha + \beta x_i$  is the linear model.

### E5

There are 3 parameters:  $\alpha$ ,  $\beta$ , and  $\sigma$ .

## Medium