Numerical Exercise

Observation	1st sibling age	2nd sibling age
1	20	18
2	18	16
3	20	16
4	20	18

$$z\text{-score of } \mathbf{x}_i = \frac{x_i - \bar{x}}{S_x}$$

$$\text{correlation}(x, y) = \frac{1}{n-1}\sum_{i=1}^{n} (z\text{-score of } x_i \times z\text{-score of } y_i)$$

↳ the use of n-1 will be discussed next week.

- z-score(1st sibiling age)
- z-score(2nd sibiling age)
- Correlation(1st sibiling age, 2nd sibiling age)