

## Conditions

Calculate mean and standard deviation for the following two series:

a. Series A: 48,50,50,52,52

b. Series B: 40,70,50,60,30

## Solution

The sample mean:

$$\bar{x} = \frac{1}{N} \sum_{i=1}^N x_i.$$

The sample standard deviation:

$$\sigma = \sqrt{\sum_{i=1}^n (x_i - \bar{x})^2}$$

For our example a:

$$\bar{x} = 50.4$$

$$\sigma = 1.67332$$

For our example b:

$$\bar{x} = 50$$

$$\sigma = 15.81139$$