$$X = \{43.1, 48.9, 42.6, 43.7, 41.0\}$$

$$\begin{array}{ccccc} \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ x_1 & x_2 & x_3 & x_4 & x_5 \end{array}$$

$\boxed{\text{X is a sample of 5 outcomes}}$

$$\sum_{i=1}^{5} x_i = x_1 + x_2 + x_3 + x_4 + x_5$$
$$= 43.1 + 48.9 + 42.6 + 43.7 + 41.0$$
$$= 219.3$$

$\boxed{\text{You can add up the outcomes in sample X.}}$

$$\sum_{i=1}^{5} x_i^2 = x_1^2 + x_2^2 + x_3^2 + x_4^2 + x_5^2$$
$$= (43.1)^2 + (48.9)^2 + (42.6)^2 + (43.7)^2 + (41.0)^2$$
$$= 9654.27$$

$\boxed{\text{You can add up the squared outcomes in sample X.}}$

So, the mean of sample X is:

$$\bar{x} = n^{-1} \sum_{i=1}^{n} x_i = \frac{1}{n} \sum_{i=1}^{n} x_i = \frac{1}{n}(x_1 + x_2 + \ldots + x_n)$$

and the variance of sample X is:

$$s^2 = (n-1)^{-1} \sum_{i=1}^{n} (x_i - \bar{x})^2$$
$$= \frac{1}{n-1} \sum_{i=1}^{n} (x_i - \bar{x})^2$$
$$= \frac{1}{n-1}\left[(x_1 - \bar{x})^2 + (x_2 - \bar{x})^2 + \ldots + (x_n - \bar{x})^2\right]$$

$\boxed{\text{Since sample X has 5 outcomes, th[en] } n = 5.}$

and the standard deviation of sample X is:

$$s = \sqrt{s^2} = \sqrt{\frac{1}{n-1}\left[(x_1 - \bar{x})^2 + \ldots + (x_n - \bar{x})^2\right]}$$