

Solutions

Each answer shows the steps, then the **result**.

2.1

- $\mu_X = np$

2.2

- $\mu_X = 50 \times 0.4 = 20$

2.3

- $\sigma_X = \sqrt{100(0.5)(0.5)} = \sqrt{25} = 5$

3.1 B

3.2 B

3.3

(a)

- $\mu_X = 200 \times 0.3 = 60$

(b)

- $\sigma_X = \sqrt{200(0.3)(0.7)} = \sqrt{42} \approx 6.5$