Solutions

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

2.1

- $\mu_{\hat{p}} = p$

2.2

- $\sigma_{\hat{p}} = \sqrt{\dfrac{0.4 \times 0.6}{100}} = \sqrt{0.0024} = 0.049$

2.3

- $np \geq 10$ and $n(1-p) \geq 10$

3.1 B

3.2 B

3.3

(a)

- 0.2

(b)

- $\sigma_{\hat{p}} = \sqrt{\dfrac{0.2 \times 0.8}{64}} = \sqrt{0.0025} = 0.05$