

Solutions

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

2.1

- $H_0 : p = p_0$ (a specific value)

2.2

- $$z = \frac{\hat{p} - p_0}{\sqrt{p_0(1 - p_0)/n}}$$

2.3

- any one of: random sample, independence (10% rule), large counts

3.1 B

3.2 B

3.3

(a)

- $H_0 : p = 0.5$

(b)

- $H_a : p \neq 0.5$

(c)

- $$z = \frac{0.6 - 0.5}{\sqrt{0.5(0.5)/100}} = \frac{0.1}{0.05} = 2.0$$