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$$2. e = \frac{\sigma}{\sqrt{n}} \times Z \frac{\alpha}{2}$$

$$(1) \sigma = 3 \quad e = 0.5 \quad 1 - \alpha = 0.95$$

$$n = \left( \frac{3}{0.5} \right)^2 \times 1.96^2 \approx 138.3$$

$$\approx 139$$

$$(2) \sigma = 0.2 \quad e = 0.03 \quad 1 - \alpha = 0.9$$

$$n = \left( \frac{0.2}{0.03} \right)^2 \times 1.645^2 = 120.27$$

$$\approx 121$$

$$(3) \sigma = 0.05 \quad e = 0.02 \quad 1 - \alpha = 0.98$$

$$n = \left( \frac{0.05}{0.02} \right)^2 \times 2.326^2 \approx 33.8$$

$$\approx 34$$