

$$\bar{X} \sim N(\mu, \sigma/\sqrt{n})$$

$$\sim N\left(30, \frac{3}{10}\right)$$



$$P(\bar{X} > 30.3) = P\left(z > \frac{30.3 - 30}{0.3}\right)$$

$$= P(z > 1)$$

$$\bar{X} \sim N(\mu, \sigma/\sqrt{n})$$

$$\sim N\left(30, \frac{3}{20}\right)$$

$$P(\bar{X} > 30.3) = P\left(Z > \frac{30.3 - 30}{0.15}\right)$$

$$= P(Z > 2)$$

