

4. General Suppose that x has a distribution with $\mu = 72$ and $\sigma = 8$.

(a) If random samples of size n = 16 are selected, can we say anything about the \overline{x} distribution of sample means?

(b) If the original x distribution is normal, can we say anything about the \overline{x} distribution of random samples of size 16? Find $P(68 \le \bar{x} \le 73)$.

5 Coal: Automatic Loader Coal is carried from a mine in West Virginia to a power