

# Chapters 7-9: Cumulative Review Problems

- 1. Statistical Literacy** What are the values of the mean and standard deviation of a standard normal distribution?
  - 2. Statistical Literacy** According to the empirical rule, about what percentage of a normal distribution falls within 2 standard deviations of the mean?
  - 3. Statistical Literacy** Please give a careful but brief answer to each of the following questions.
    - (a)** What is a population? How do you get a simple random sample? Give examples.
    - (b)** What is a sample statistic? What is a sampling distribution? Give examples.
    - (c)** Give a careful and complete statement of the central limit theorem.
    - (d)** List at least three areas of everyday life to which the above concepts can be applied. Be specific.
- 8. Testing and Estimating  $\mu$  with  $\sigma$  Known** Let  $x$  be a random variable that represents micrograms of lead per liter of water ( $\mu\text{g/L}$ ). An industrial plant discharges water into a creek. The Environmental Protection Agency has studied the discharged water and found  $x$  to have a normal distribution, with  $\sigma = 0.7\mu\text{g/L}$  (Reference: EPA Wetlands Case Studies).
- (a)** The industrial plant says that the population mean value of  $x$  is  $\mu = 2.0\mu\text{g/L}$ . However, a random sample of  $n = 10$  water samples showed that  $\bar{x} = 2.56\mu\text{g/L}$ . Does this indicate that the lead-concentration population mean is higher than the industrial plant claims? Use  $\alpha = 1\%$ .

# Cumulative Review Chapters 9

**S Ashworth**



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