## Population\_Sample\_and\_Hypotheses

### **Multiple Choice**

Identify the choice that best completes the statement or answers the question.

- 1. A manufacturer inspects 400 personal video players and finds that 399 of them have no defects. The manufacturer sent a shipment of 800 video players to a distributor. Predict the number of players in the shipment that are likely to have no defects.
  - a. 780 c. 2 b. 798 d. 399
- 2. In the cafeteria, sometimes salads are served and sometimes fruit is served. Linda notes that out of 15 days, 12 days salad is served and 3 days fruit is served. Predict how many days fruit is served in a 180-day school year. If necessary, round your answer to the nearest whole number.
  - a. 144 days c. 45 days
  - b. 36 days d. 33 days
  - 3. A factory produces 28,000 computer monitors per day. The manager of the factory claims that fewer than 870 defective computer monitors are produced each day. In a random sample of 200 computer monitors, there are 3 defective computer monitors. Determine whether the manager's claim is likely to be true. Explain.
    - a. Yes, the manager's claim is likely to be true. Based on the data, you can predict that there are 425 defective computer monitors produced per day.
    - b. No, the manager's claim is not likely to be true. Based on the data, you can predict that there are 875 defective computer monitors produced per day.
    - c. Yes, the manager's claim is likely to be true. Based on the data, you can predict that there are 420 defective computer monitors produced per day.
    - d. No, the manager's claim is not likely to be true. Based on the data, you can predict that there are 880 defective computer monitors produced per day.
  - 4. At Rosa's summer job with a research company, she must get a representative sample of people from her town to answer a question about health habits. Which of the following methods could be used to get a representative sample?
    - a. selecting people who are in the hospital
    - b. gathering responses from women who own businesses in town
    - c. selecting people randomly from a computer list
    - d. selecting every 10th person as they enter a fast-food restaurant

#### **Numeric Response**

1. A music store has different clubs for different musical genres. In all, the clubs have 162 members. The store gives comment cards to all 54 members of its Folk Music Club to find out about satisfaction with the club's features. Identify the total number of the population.

# Population\_Sample\_and\_Hypotheses Answer Section

### **MULTIPLE CHOICE**

- 1. B
- 2. B
- 3. C
- 4. C

### NUMERIC RESPONSE

1. 162