

Population_Sample_and_Hypotheses

Multiple Choice

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

- _____ 1. A manufacturer inspects 800 personal video players and finds that 796 of them have no defects. The manufacturer sent a shipment of 2400 video players to a distributor. Predict the number of players in the shipment that are likely to have no defects.
- a. 796
 - b. 12
 - c. 2388
 - d. 2280
- _____ 2. In the cafeteria, sometimes salads are served and sometimes fruit is served. Linda notes that out of 20 days, 17 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. 153 days
 - b. 32 days
 - c. 27 days
 - d. 24 days
- _____ 3. A factory produces 15,000 computer monitors per day. The manager of the factory claims that fewer than 800 defective computer monitors are produced each day. In a random sample of 180 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 250 defective computer monitors produced per day.
 - b. Yes, the manager's claim is likely to be true. Based on the data, you can predict that there are 255 defective computer monitors produced per day.
 - c. No, the manager's claim is not likely to be true. Based on the data, you can predict that there are 805 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 810 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. gathering responses from factory workers
 - b. gathering responses from men in her apartment building
 - c. selecting every other person as they exit the mall
 - d. selecting people randomly from a list of business owners

Numeric Response

1. A music store has different clubs for different musical genres. In all, the clubs have 159 members. The store gives comment cards to all 53 members of its Classical Music Club to find out about satisfaction with the club's features. Identify the total number of the population.

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Answer Section

MULTIPLE CHOICE

1. C
2. C
3. A
4. C

NUMERIC RESPONSE

1. 159

