

LESSON 45: Surveys and Data Collection

Homework

John is trying to convince the music store to invest in more country cd's. In order to do this he created a random sample of people who visit the music store often. The table below shows the survey results.

Type of music	Number of People
Rock	32
Country	23
Pop	15
Jazz	4
R&B	6

1. If there are 400 people who visit the music store often, how many of them would you expect to buy a country cd?
2. If you were in charge of ordering cd's and you could order 240 cd's, how many country cd's would you order?
3. If there are 400 people who visit the music store often, how many of them would you expect to buy a Jazz cd?
4. If there are 400 people who visit the music store often, how many of them would you expect to buy a rock cd?
5. If there are 400 people who visit the music store often, how many of them would you expect to buy a pop cd?

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6. John is trying to convince the cd store to invest in more country cd's. Do you think the results of his survey will help convince them to buy more country cd's than other types of cd's? Explain your answer.

7. Trishelle conducted a survey to find out the most popular type of car. She surveyed all the parents of the students in her class. The most popular type of car was a mini-van. What inference could be made using the above survey information?

- A. The most popular type of car in America is the mini-van.
- B. The most popular type of car among adults is the mini-van.
- C. The most popular type of car among parents is the mini-van.
- D. The most popular type of car among young people is the mini-van.

Directions: For number 8, read the two methods of sampling for the survey described. Decide which sample will best represent the entire population and then tell why.

8. The gym teacher wants to know what sport her classes would like to play next.

- A. She surveys 50 students, 10 randomly chosen from each gym class she teaches during the day.
- B. She surveys all of the students in her classes who currently play on a school team.

Why?

Directions: Design two surveys for the following situation. One survey should be a random sample and one should be a bias sample.

9 & 10. The mall wants to know if they should have more restaurants.

Random:

Bias: