



## Lesson Practice • Part 1

Choose the correct answer.

- Martha is planning to survey people at a water park to determine the most popular water slide at the park. Which would be the best sample for her survey to draw a valid inference?
  - children at the park between the ages of 3 and 5
  - children at the park between the ages of 6 and 10
  - adults at the park between the ages of 20 and 30
  - adults and children of all ages at the park
- A newspaper is conducting a survey to determine which American professional baseball team is most popular. How would it most likely get a random sample that is representative of the population?
  - by asking people at a Miami Marlins game
  - by calling people from around the country
  - by asking every fifth person entering the stadium at a Red Sox game
  - by asking people at a Cincinnati Reds game

Use the information below for questions 3 and 4.

Mr. Callahan just opened a flower shop. He took a random survey of shoppers to find out their favorite flowers and recorded the results in the table below.

Favorite Flower

Type	Shoppers
Daffodil	14
Lily	10
Rose	24
Daisy	12

- What is the size of the sample?
  - 4
  - 50
  - 60
  - 64
- If Mr. Callahan expects to sell 150 bunches of flowers next week, which is the best prediction of how many bunches of daffodils he should have in his shop?
  - 28
  - 35
  - 42
  - 60

5. Which of these is **not** a random sample that would be valid to determine the favorite food of students in your school?
- A. five students at a local pizza parlor
  - B. every sixth student on the school roster
  - C. every tenth student entering school in the morning
  - D. three students from each table in the lunchroom

6. Miko took a survey of the students in her grade to see how many are likely to join a book club if she starts one. She surveyed 48 students, and ten said they would join. If there are 240 students in her grade, how many students might Miko expect to join the club?
- A. 28
  - B. 38
  - C. 48
  - D. 50

7. A survey asked students at a middle school which of four after-school sports they would most like to have at their school. The students who participated in the survey were randomly selected during their lunch period. The results are shown in the table below.

**After-School Sports**

Sport	Number of Students
Track	22
Cross-Country	15
Lacrosse	48
Tennis	15

- A. Identify the population and the sample. Is the sample representative of the population? Explain your thinking.

---



---



---

- B. If you assume that the sample is representative of the population, how many students would you predict to choose lacrosse in a school of 750 students? Is the prediction a good prediction? Explain.

---



---



---