### Identifying Populations and Samples

#### Scenario 1
A survey company was trying to see if people in a state thought the pollution was too high.

**Which choice best represents a sample?**

A. A selection of people who live in small towns.
B. A selection of people who live in dirty neighborhoods.
C. Every person in the state.
D. A selection of people from each neighborhood in the state.

**Answer:** D

#### Scenario 2
Before a nation wide election, a polling place was trying to see who would win.

**Which choice best represents a sample?**

A. A selection of voters of different ages.
B. All voters.
C. A selection of male voters.
D. A selection of votes from one part of the nation.

**Answer:** C

#### Scenario 3
A beverage company wanted to see if people in the United States liked their new logo.

**Which choice best represents a population?**

A. 100 male and female employees
B. Every person in the United States.
C. A selection of shoppers from different states.
D. A selection of logo artists.

**Answer:** B

#### Scenario 4
A mayor wanted to see if the people in his town thought he was doing a good job.

**Which choice best represents a population?**

A. The mayor's family.
B. The people who voted for the mayor.
C. 242 voters.
D. The residents of the town.

**Answer:** D

#### Scenario 5
A gaming website wanted to find out which console its visitors owned.

**Which choice best represents a population?**

A. All of the website visitors.
B. Visitors to the 3DS section.
C. Visitors with an 'e' in their user name.
D. Visitors to the PS4 section.

**Answer:** A

#### Scenario 6
A musician wanted to see what people who bought his last album thought about the songs.

**Which choice best represents a sample?**

A. Every person who bought the album.
B. 257 girls who bought the album.
C. A selection of 3,106 people who bought the album.
D. A selection of people who didn’t want to buy the album.

**Answer:** C
Use the scenario to identifying populations and samplings.

1) A survey company was trying to see if people in a state thought the pollution was too high.
   Which choice best represents a sample?
   A. A selection of people who live in small towns.
   B. A selection of people who live in dirty neighborhoods.
   C. Every person in the state.
   D. A selection of people from each neighborhood in the state.

2) Before a nation wide election, a polling place was trying to see who would win.
   Which choice best represents a sample?
   A. A selection of voters of different ages.
   B. All voters.
   C. A selection of male voters.
   D. A selection of votes from one part of the nation.

3) A beverage company wanted to see if people in the United States liked their new logo.
   Which choice best represents a population?
   A. 100 male and female employees
   B. Every person in the United States.
   C. A selection of shoppers from different states.
   D. A selection of logo artists.

4) A mayor wanted to see if the people in his town thought he was doing a good job.
   Which choice best represents a population?
   A. The mayor's family.
   B. The people who voted for the mayor.
   C. 242 voters.
   D. The residents of the town.

5) A gaming website wanted to find out which console its visitors owned.
   Which choice best represents a population?
   A. All of the website visitors.
   B. Visitors to the 3DS section.
   C. Visitors with an 'e' in their user name.
   D. Visitors to the PS4 section.

6) A musician wanted to see what people who bought his last album thought about the songs.
   Which choice best represents a sample?
   A. Every person who bought the album.
   B. 257 girls who bought the album.
   C. A selection of 3,106 people who bought the album.
   D. A selection of people who didn't want to buy the album.