1) A beverage company wanted to see if people in the United States liked their new logo.
Which choice best represents a population?
A. A selection of logo artists.
B. Every person in the United States.
C. A selection of shoppers from different states.
D. 3,800 children age 5 - 15

2) 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. A selection of people who didn't want to buy the album.
C. 250 girls who bought the album.
D. A selection of 3,294 people who bought the album.

3) A gaming website wanted to find out which console its visitors owned.
Which choice best represents a population?
A. Visitors to the 3DS section.
B. All of the website visitors.
C. Visitors to the PS4 section.
D. Visitors who are on the website for more than 5 minutes.

4) 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 over age 50.
B. A selection of male voters.
C. A selection of voters of different ages.
D. All voters.

5) A toy store owner tracking how much kids spend each month on toys.
Which choice best represents a population?
A. All of the kids who buy toys.
B. 227 rich kids.
C. 228 boys age 7 - 15
D. 235 kids from age 10 to 15.

6) A mayor wanted to see if the people in his town thought he was doing a good job.
Which choice best represents a sample?
A. 1,000 unemployed voters.
B. The mayor's family.
C. The residents of the town.
D. 242 voters.
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   C. The residents of the town.
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Answers
1. B
2. D
3. B
4. C
5. A
6. D
Use the scenario to identifying populations and samplings.

1) 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 over age 50.
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2) A restaurant chain wanted to find out how the customer experience was in a store. Which choice best represents a sample?
   A. 1 out of every 35 customers
   B. All of the people who ate at the store.
   C. 240 customers who spent more than $10.
   D. 299 customers who filled out complaint cards.

3) A mayor wanted to see if the people in his town thought he was doing a good job. Which choice best represents a sample?
   A. 124 voters.
   B. The residents of the town.
   C. 271 voters age 21 to 30.
   D. Local business owners.

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

5) A school principal wants to see which subject the 845 students in his school liked best. Which choice best represents a population?
   A. The students in 3rd grade.
   B. The first 77 students who come into the school.
   C. The students making a B in math.
   D. All the students in the school.

6) A musician wanted to see what people who bought his last album thought about the songs. Which choice best represents a population?
   A. Every person who bought the album.
   B. A selection of 7,285 people who bought the album.
   C. A selection of people who didn't want to buy the album.
   D. Every person from age 5 - 12 who bought the album.
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1) A mayor wanted to see if the people in his town thought he was doing a good job.
   Which choice best represents a sample?
   A. The people who voted for the mayor.
   B. The residents of the town.
   C. 263 voters age 21 to 30.
   D. The residents of 5 different neighborhoods.

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 male voters.
   B. A selection of voters over age 50.
   C. All voters.
   D. A selection of voters of different ages.

3) A toy store owner tracking how much kids spend each month on toys.
   Which choice best represents a sample?
   A. 264 boys and girls in the toy store.
   B. All of the kids who buy toys.
   C. 257 boys age 7 - 15
   D. 211 rich kids.

4) A beverage company wanted to see if people in the United States liked their new logo.
   Which choice best represents a population?
   A. A selection of logo artists.
   B. A selection of shoppers from different states.
   C. 189 male and female employees
   D. Every person in the United States.

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 with an 'e' in their user name.
   C. Visitors over 23.
   D. Visitors to the 3DS section.

6) A musician wanted to see what people who bought his last album thought about the songs.
   Which choice best represents a population?
   A. Every person from age 5 - 12 who bought the album.
   B. A selection of 3,701 people who bought the album.
   C. A selection of people who didn't want to buy the album.
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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 population?
   A. A selection of people from each neighborhood in the state.
   B. A selection of people who live in small towns.
   C. Every person in the state.
   D. A selection of people who live in dirty neighborhoods.

2) A school principal wants to see which subject the 695 students in his school liked best. Which choice best represents a sample?
   A. The girls in the school.
   B. 1 classroom for each grade.
   C. All the students in the school.
   D. The students making a B in math.

3) A gaming website wanted to find out which console its visitors owned. Which choice best represents a population?
   A. Visitors with an 'e' in their user name.
   B. Visitors to the 3DS section.
   C. Visitors over 22.
   D. All of the website visitors.

4) A toy store owner tracking how much kids spend each month on toys. Which choice best represents a sample?
   A. All of the kids who buy toys.
   B. 275 rich kids.
   C. 200 kids from age 10 to 15.
   D. 292 boys age 7 - 15

5) 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 residents of 4 different neighborhoods.
   B. The residents of the town.
   C. 442 voters age 21 to 30.
   D. Local business owners.

6) A beverage company wanted to see if people in the United States liked their new logo. Which choice best represents a sample?
   A. A selection of shoppers from different states.
   B. Every person in the United States.
   C. 153 male and female employees.
   D. A selection of logo artists.
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1) A toy store owner tracking how much kids spend each month on toys. Which choice best represents a sample?
   A. 248 boys age 7 - 15
   B. 250 boys and girls in the toy store.
   C. 222 rich kids.
   D. All of the kids who buy toys.

2) A survey company was trying to see if people in a state thought the pollution was too high. Which choice best represents a population?
   A. Every person who owns more than 3 cars.
   B. A selection of people from each neighborhood in the state.
   C. A selection of people who live in dirty neighborhoods.
   D. Every person in the state.

3) 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. 261 voters age 21 to 30.
   B. Local business owners.
   C. 272 voters.
   D. The residents of the town.

4) 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 over age 50.
   B. A selection of voters of different ages.
   C. All voters.
   D. A selection of votes from one part of the nation.

5) A gaming website wanted to find out which console its visitors owned. Which choice best represents a sample?
   A. All of the website visitors.
   B. Visitors over 21.
   C. Visitors to the PS4 section.
   D. Visitors with an 'e' in their user name.

6) A beverage company wanted to see if people in the United States liked their new logo. Which choice best represents a population?
   A. Every person in the United States.
   B. A selection of logo artists.
   C. A selection of shoppers from different states.
   D. 187 male and female employees.
### Identifying Populations and Samples

#### 1) A toy store owner tracking how much kids spend each month on toys.
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Use the scenario to identifying populations and samplings.

1) A gaming website wanted to find out which console its visitors owned.
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2) Before a nation wide election, a polling place was trying to see who would win.
   Which choice best represents a population?
   A. A selection of voters from all over the nation.
   B. A selection of voters over age 50.
   C. A selection of votes from one part of the nation.
   D. All voters.

3) 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. 148 voters.
   B. 253 voters age 21 to 30.
   C. The mayor's family.
   D. The residents of the town.

4) A toy store owner tracking how much kids spend each month on toys.
   Which choice best represents a sample?
   A. All of the kids who buy toys.
   B. 208 boys age 7 - 15
   C. 249 rich kids.
   D. 205 kids from age 10 to 15.

5) A school principal wants to see which subject the 842 students in his school liked best.
   Which choice best represents a sample?
   A. The students in 3rd grade.
   B. The students making a B in math.
   C. 1 classroom for each grade.
   D. All the students in the school.

6) A musician wanted to see what people who bought his last album thought about the songs.
   Which choice best represents a sample?
   A. 282 girls who bought the album.
   B. A selection of 1,537 people who bought the album.
   C. Every person from age 5 - 12 who bought the album.
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---

**Answers**

1. B
2. D
3. D
4. D
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2) A toy store owner tracking how much kids spend each month on toys.
Which choice best represents a sample?
A. 226 kids from age 10 to 15.
B. 286 boys age 7 - 15
C. 284 rich kids.
D. All of the kids who buy toys.

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

4) A musician wanted to see what people who bought his last album thought about the songs.
Which choice best represents a population?
A. Every person from age 5 - 12 who bought the album.
B. Every person who bought the album.
C. 213 girls who bought the album.
D. A selection of 5,717 people who bought the album.

5) A beverage company wanted to see if people in the United States liked their new logo.
Which choice best represents a population?
A. A selection of shoppers from different states.
B. 3,741 children age 5 - 15
C. Every person in the United States.
D. 188 male and female employees

6) 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. Every person who owns more than 3 cars.
B. Every person in the state.
C. A selection of people who live in small towns.
D. A selection of people from each neighborhood in the state.

Answers
1. ________
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3. ________
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Use the scenario to identifying populations and samplings.

1) A gaming website wanted to find out which console its visitors owned. Which choice best represents a sample?
   A. Visitors over 16.
   B. Visitors to the 3DS section.
   C. All of the website visitors.
   D. Visitors with an 'e' in their user name.

2) Before a nation wide election, a polling place was trying to see who would win. Which choice best represents a population?
   A. A selection of votes from one part of the nation.
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   C. A selection of male voters.
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3) 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 residents of the town.
   B. 1,000 unemployed voters.
   C. 258 voters.
   D. 399 voters age 21 to 30.

4) 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. A selection of 8,684 people who bought the album.
   C. A selection of people who didn't want to buy the album.
   D. 276 girls who bought the album.

5) 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. Every person who sent in a complaint about pollution.
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   C. A selection of people who live in small towns.
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6) A school principal wants to see which subject the 796 students in his school liked best. Which choice best represents a sample?
   A. All the students in the school.
   B. The girls in the school.
   C. The first 51 students who come into the school.
   D. The students making a B in math.
Identifying Populations and Samples

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<td></td>
<td>A. All voters.</td>
</tr>
<tr>
<td></td>
<td>B. A selection of voters from all over the nation.</td>
</tr>
<tr>
<td></td>
<td>C. A selection of votes from one part of the nation.</td>
</tr>
<tr>
<td></td>
<td>D. A selection of voters over age 50.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
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</tr>
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<tbody>
<tr>
<td>3</td>
<td>Which choice <strong>best</strong> represents a population?</td>
</tr>
<tr>
<td></td>
<td>A. Every person who owns more than 3 cars.</td>
</tr>
<tr>
<td></td>
<td>B. Every person who sent in a complaint about pollution.</td>
</tr>
<tr>
<td></td>
<td>C. A selection of people from each city in the state.</td>
</tr>
<tr>
<td></td>
<td>D. Every person in the state.</td>
</tr>
</tbody>
</table>

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<tr>
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<td>Which choice <strong>best</strong> represents a sample?</td>
</tr>
<tr>
<td></td>
<td>A. 1 out of every 37 customers</td>
</tr>
<tr>
<td></td>
<td>B. All of the people who ate at the store.</td>
</tr>
<tr>
<td></td>
<td>C. 245 customers who filled out complaint cards.</td>
</tr>
<tr>
<td></td>
<td>D. 229 customers who spent more than $15.</td>
</tr>
</tbody>
</table>

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<tr>
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<th>A school principal wants to see which subject the 500 students in his school liked best.</th>
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<td>5</td>
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<tr>
<td></td>
<td>A. The girls in the school.</td>
</tr>
<tr>
<td></td>
<td>B. All the students in the school.</td>
</tr>
<tr>
<td></td>
<td>C. The first 86 students who came into the school.</td>
</tr>
<tr>
<td></td>
<td>D. The students in 3rd grade.</td>
</tr>
</tbody>
</table>
### Use the scenario to identifying populations and samplings.

<table>
<thead>
<tr>
<th>Question</th>
<th>Scenario</th>
<th>Best Choice</th>
</tr>
</thead>
<tbody>
<tr>
<td>1)</td>
<td>A toy store owner tracking how much kids spend each month on toys. Which choice best represents a population?</td>
<td>A. All of the kids who buy toys.</td>
</tr>
<tr>
<td>2)</td>
<td>A musician wanted to see what people who bought his last album thought about the songs. Which choice best represents a sample?</td>
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### Answers

1. **A**
2. **B**
3. **A**
4. **D**
5. **A**
6. **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.
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