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Populations and Samples

**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 population?

A. 1,000 unemployed voters.

B. The mayor's family.

C. The residents of the town.

D. 242 voters.

**7)** 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 over age 50.

B. A selection of male voters.

C. All voters.

D. A selection of voters of different ages.

**8)** 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.

**9)** 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.

**10)** 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.

**11)** 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.

**12)** 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.

13) A biologist wanted to find out what kinds of fish were in a pond.

 Which choice **best** represents a sample?

 A. All of the bluegills.

 B. The fish that were caught with a shock net in one hour.

 C. All of the fish.

 D. The fish seen in the shallow end of the pond.

14) A biologist wanted to find out what kinds of fish were in a pond.

 Which choice **best** represents a population?

 A. All of the bluegills.

 B. The fish that were caught with a shock net in one hour.

 C. All of the fish.

 D. The fish seen in the shallow end of the pond.

15) A restaurant owner wanted to know customers’ favorite breakfast foods.

 Which choice **best** represents a sample?

 A. The customers who come for lunch.

 B. All of the customers.

 C. Every third breakfast customer.

 D. The customers who are more than 45 years old.

16) Write a question that you could ask the class.

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 Explain what sample you could use to answer this question.

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17) Write a question that you could ask the students in the school.

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 Explain what sample you could use to answer this question.

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18) Write a question that you could ask people in town.

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 Explain what sample you could use to answer this question.

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