

#1

Choose the best answer

Caleb chose 5 students at random from every class in his grade to rate the material being taught. Is this sample likely to be representative of all the students in his grade?

- Yes
 No

Show your work

#2

Choose the best answer

Matthew interviewed every member of his family. Will the results be representative of all families in the neighborhood?

- No
 Yes

Show your work

#3

Choose the best answer

Biologists study one bear and find that it eats at a certain location. Is this sample representative of the entire bear population?

- No
 Yes

Show your work

#4

Choose the best answer

A mall surveys everyone who goes into a video game store. Is this sample representative of people at the mall?

- Yes No

Show your work

#5

Choose the best answer

While at gymnastics Chloe asks her friends if they can do the splits. Is this a random sample of Chloe's friends?

- No Yes

Show your work

#6

Choose the best answer

Daniel asked 91 customers to complete a survey. 84 said they had time. Is this sample biased?

- No Yes

Show your work

#7

Choose the best answer

The city randomly selects 20 homes from each neighborhood to do a survey. Will the results be representative of the cities neighborhoods?

- No Yes

Show your work

#8

Choose the best answer

Volunteers survey all the women wearing dresses at a wedding convention. Is this sample representative of the people at the event?

- Yes No

Show your work

#9

Choose the best answer

A town runs a survey about the effectiveness of its government and gives it to everyone who shows up for a town meeting. Is the sample biased?

- Yes No

Show your work

#10

Choose the best answer

While working at a pita place, Diana asks every customer if they are satisfied with the service. Is this a biased sample?

- Yes
 No

Show your work

#11

Choose the best answer

The government runs a phone survey. Is this sample biased?

- No
 Yes

Show your work

#12

Choose the best answer

At the airport the computer system uses a number generator to flag individuals for extra screening. Will this be a random sample?

- Yes
 No

Show your work

| Question | Answer |
|----------|----------|
| #1 | choice 1 |
| #2 | choice 1 |
| #3 | choice 1 |
| #4 | choice 2 |
| #5 | choice 1 |
| #6 | choice 2 |
| #7 | choice 2 |
| #8 | choice 2 |
| #9 | choice 1 |
| #10 | choice 2 |
| #11 | choice 2 |
| #12 | choice 1 |