

#1

Choose the best answer

Jayden interviews the 5 tallest students in his class about how comfortable the desks are. Is this sample of the class representative?

☐ Yes

☐ No

Show your work

#2

Choose the best answer

Emily asked her school's basketball team to rate the school cafeteria. Is this a biased sample of the school's population?

☐ No

☐ Yes

Show your work

#3

Choose the best answer

At a bottle manufacturing plant they test every tenth bottle for quality. Is this a random sample?

☐ Yes

☐ No

Show your work

#4

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

#5

Choose the best answer

If there are 95 ponds around a lake, and biologists study 29 of them randomly to check the health of water around the lake. Is that a biased sample?

☐

Yes

☐

No

Show your work

#6

Choose the best answer

Emily asked all the hockey players if they liked the new arena. Half of the people that use the arena are hockey players. Is this a biased sample.

☐

No

☐

Yes

Show your work

#7

Choose the best answer

Is picking names that are all on the same sized pieces of paper out of a hat to win a car a random sample?

☐ Yes

☐ No

Show your work

#8

Choose the best answer

You ask your 5 best friends if they think you are cool. Is this a random sample of people who know you?

☐ Yes

☐ No

Show your work

#9

Choose the best answer

The government polls the largest city in the country about an important issue. Is this sample representative of the population of the county?

☐ Yes

☐ No

Show your work

#10

Choose the best answer

Evan asked 4 of his friends what they thought of a new movie. Is this survey of the school population representative?

☐ Yes

☐ No

Show your work

#11

Choose the best answer

Biologists check the health of the rainforest every year. They do this by measuring the health in several random locations throughout the forest. Are their results representative of the entire forest?

☐ No

☐ Yes

Show your work

#12

Choose the best answer

Sophia asked 88 customers to complete a survey. 35 said they had time. Is this sample biased?

☐ Yes

☐ No

Show your work

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