Random Samples & Making Predictions · 1

To find students' favorite subject, a student surveys only her friends. Is the sample biased or random?

Random Samples & Making Predictions · 2

In a random sample of 40 students, 29 walk to school. There are 480 students at a school. Predict how many of them walk to school.

Random Samples & Making Predictions · 3

To learn which pizza topping town residents like best, a reporter asks customers leaving a pepperoni pizza shop. Is the sample biased or random?

Random Samples & Making Predictions · 4

In a random sample of 100 people, 32 have a pet cat. What percent of the sample have a pet cat?

Random Samples & Making Predictions · 5

In a random sample of 80 phones, 18 are defective. There are 1840 phones made at a factory. Predict how many of them are defective.

Random Samples & Making Predictions · 6

Two random samples of 40 students were taken from a school of 1280 students. In the first sample, 22 students ride the bus. In the second, 26 ride the bus. Using the average of the two samples, predict how many students in the school ride the bus.

Random Samples & Making Predictions · 7

To find how many people in a city own a pet, a volunteer surveys people at a dog park. Is the sample biased or random?

Random Samples & Making Predictions · 8

In a random sample of 25 phones, 14 are defective. There are 400 phones made at a factory. Predict how many of them are defective.

Random Samples & Making Predictions · 2

ANSWER

348

Random Samples & Making Predictions · 1

ANSWER

Biased

Random Samples & Making Predictions · 4

ANSWER

32%

Random Samples & Making Predictions · 3

ANSWER

Biased

Random Samples & Making Predictions · 6

ANSWER

768

Random Samples & Making Predictions · 5

ANSWER

414

Random Samples & Making Predictions · 8

ANSWER

224

Random Samples & Making Predictions · 7

ANSWER

Biased

Random Samples & Making Predictions · 9

To find the favorite sport of students at a school, Ana asks the players on the soccer team. Is the sample biased or random?

Random Samples & Making Predictions · 10

In a random sample of 100 phones, 11 are defective. What percent of the sample are defective?

Random Samples & Making Predictions · 11

In a random sample of 80 seventh graders, 44 play an instrument. There are 1760 seventh graders in a district. Predict how many of them play an instrument.

Random Samples & Making Predictions · 12

Two random samples of 40 students were taken from a school of 400 students. In the first sample, 10 students ride the bus. In the second, 15 ride the bus. Using the average of the two samples, predict how many students in the school ride the bus.

Random Samples & Making Predictions · 13

To find the most popular book genre, a librarian asks the members of the mystery book club. Is the sample biased or random?

Random Samples & Making Predictions · 14

In a random sample of 50 fish, 36 are trout. There are 950 fish in a lake. Predict how many of them are trout.

Random Samples & Making Predictions · 15

In a random sample of 50 voters, 6 support a new park. What percent of the sample support a new park?

Random Samples & Making Predictions · 16

In a random sample of 20 seventh graders, 5 play an instrument. There are 320 seventh graders in a district. Predict how many of them play an instrument.

Random Samples & Making Predictions · 10

ANSWER

11%

Random Samples & Making Predictions · 9

ANSWER

Biased

Random Samples & Making Predictions · 12

ANSWER

125

Random Samples & Making Predictions · 11

ANSWER

968

Random Samples & Making Predictions · 14

ANSWER

684

Random Samples & Making Predictions · 13

ANSWER

Biased

Random Samples & Making Predictions · 16

ANSWER

80

Random Samples & Making Predictions · 15

ANSWER

12%

Random Samples & Making Predictions · 17

Two random samples of 25 students were taken from a school of 400 students. In the first sample, 4 students ride the bus. In the second, 3 ride the bus. Using the average of the two samples, predict how many students in the school ride the bus.

Random Samples & Making Predictions · 18

To learn how many hours students sleep, a counselor assigns every student a number and uses a random number generator to pick 50 of them. Is the sample biased or random?

Random Samples & Making Predictions · 19

In a random sample of 20 fish, 7 are trout. There are 580 fish in a lake. Predict how many of them are trout.

Random Samples & Making Predictions · 20

In a random sample of 25 seventh graders, 12 play an instrument. What percent of the sample play an instrument?

Random Samples & Making Predictions · 21

In a random sample of 25 voters, 14 support a new park. There are 550 voters in a city. Predict how many of them support a new park.

Random Samples & Making Predictions · 22

Two random samples of 20 students were taken from a school of 720 students. In the first sample, 12 students ride the bus. In the second, 17 ride the bus. Using the average of the two samples, predict how many students in the school ride the bus.

Random Samples & Making Predictions · 23

To find out if people want a new skate park, a city asks only people who come to a skateboarding event. Is the sample biased or random?

Random Samples & Making Predictions · 24

In a random sample of 80 phones, 11 are defective. There are 2480 phones made at a factory. Predict how many of them are defective.

Random Samples & Making Predictions · 18

ANSWER

Random

Random Samples & Making Predictions · 17

ANSWER

56

Random Samples & Making Predictions · 20

ANSWER

48%

Random Samples & Making Predictions · 19

ANSWER

203

Random Samples & Making Predictions · 22

ANSWER

522

Random Samples & Making Predictions · 21

ANSWER

308

Random Samples & Making Predictions · 24

ANSWER

341

Random Samples & Making Predictions · 23

ANSWER

Biased