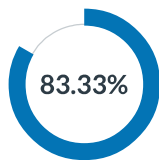


# Results

SARDA, SANJIT



10

Out of 12 points

09:05

Time for this attempt

## Your Answers:

1 1 / 1 point

The administrators of XYZ university conducted a poll to find out whether their undergraduate students at the university prefer in-person or online lectures post pandemic. What is the population of interest here?

- ☐ All students who participated in the poll
- ☒ All undergraduate students who attend the university
- ☐ All students who attend the university
- ☐ All undergraduate students in the world

2 0 / 1 point

Which of the following is NOT correct about a pie chart or a bar chart?

- ☐ The height or length of the bar in a bar chart corresponds to the value or frequency of that category.
- ☐ It is best to use pie chart when there are many categories in the data
- ☐ Bar charts can be useful for displaying patterns of variation in categorical data
- ☒ Each slice in a pie chart represents the proportion of observations or data that belongs to that category

Correct Answer:

It is best to use pie chart when there are many categories in the data

3 1 / 1 point

A student investigated a sample of 12 apartments in Westwood and reported how many bathrooms they contain. The data table is given below:

Apartment	Number of Bathrooms
1	1
2	1
3	2
4	2
5	3
6	1
7	2
8	1
9	1
10	2
11	3
12	2

What is the relative frequency of two-bathroom apartments?

- ☐ 0.50
- ☐ 0.47
- ☐ 5
- ☒ 0.42

4 1 / 1 point

Which of the following is **incorrect** about the course policies?

- ☐ Make-up assignments/exams will incur penalty if no valid documentation is provided.
- ☒ I can submit my assignments via email to the professor or TAs.
- ☐ There are two attempts allowed for the quiz.
- ☐ There should be a group consisting of 2-5 people for the course project.

5 1 / 1 point

For the following data set:

60, 68, 72, 73, 76, 79, 80, 81, 82, 82, 86, 87, 90, 91, 93, 95, 96, 96, 98, 100

If this data was graphed in a histogram, how many points would be within a bin of (90, 100]?

- ☐ 5
- ☐ 6
- ☒ 7
- ☐ 8

6 1 / 1 point

The existence of multiple peaks is sometimes a sign that

- ☐ None of the above.
- ☒ Very different groups have been combined into a single collection of data.
- ☐ Similar groups have been combined into a single collection of data.
- ☐ A representative sample has been taken.

7 1 / 1 point

Which of the following would be effective ways to get help in studying for the course?

- ☒ Attend office hours with the professor or TA
- ☐ Consult a magic 8-ball for answering questions
- ☒ Utilize tutoring services offered by the university
- ☒ Discuss questions on Campuswire forum.
- ☐ Get inspiration by watching cat videos on YouTube

8 0 / 1 point

Suppose you conducted a survey asking people to choose their favorite ice cream flavor from a list of options and you end up with a dataset that looks like this:

Ice Cream Flavor	Frequency
Chocolate	15
Vanilla	12
Strawberry	8
Mint Chocolate	6
Butter Pecan	4

Which of the following would be the most appropriate to visualize the data set given its characteristics?

- ☐ A dotplot
- ☐ A bar chart
- ☐ A histogram

✖

☐ None of the above

Correct Answer: A bar chart

9 1 / 1 point

A survey was conducted to understand people's living situation in the U.S. The following table shows a sample of data.

State	Zip code	Family size	Annual income	Anxiety Level
Alabama	35236	5	32000	Mild
Florida	32716	8	23000	Moderate
Alabama	36374	4	29900	Mild
California	94565	1	31000	Moderate
Florida	32116	6	13500	Panic
Florida	32116	3	39000	Mild

Select the variables that are Categorical.

✓

☒ State

☐ Family size

✓

☒ Zip code

✓

☒ Anxiety level

☐ Annual income

10 1 / 1 point

What does it mean to have a positively skewed distribution?

☐ The values in the distribution are all positive

✓

☒ The tail of the distribution is longer on the right side

☐ The tail of the distribution is longer on the left side

☐ There are more values on the right side

11 1 / 1 point

A survey asked a group of people to report the average number of phone calls they made daily. Below is the table that shows the survey results.

Number of calls made	1-4	5-8	9-12	13-16	17-20
Frequency	16	11	5	3	1

Suppose you were to make a frequency histogram from the table to display the distribution of the number of daily phone calls.

Which of the following statements is true? (Select all that apply)

✓

☒ There will be 5 bars in the histogram

✓

☒ The sum of the heights of all the bars in the frequency histogram equals 36

☐ The maximum number of phone calls reported in the sample data is 20

☐ The shape of the histogram will remain the same if we change the bin width to 2

✓

☒ The highest bar in the histogram falls in the interval 1-4

12 1 / 1 point

Which of the following is correct about participation?

✓

☒ I can earn extra participation points by attending the optional Zoom sessions

☐ I must reach level 3 on Campuswire to earn full participation points

✓

☒ Full participation can be earned by reaching at least 15 participation points.

☐ The only way to earn participation points is through attending the lab sessions.