

## NPTEL » Introduction to probability and Statistics

## **Register for Certification exam**

Course outline
How does an NPTEL online course work?
Week 1
Introduction to probability and Statistics
Types of data
Categorical data
<ul> <li>Describing categorical data</li> </ul>
<ul> <li>Describing Categorical data (continued)</li> </ul>
Assignment 1 Solution
Practice: Week 1: Assignment 1 (Non-Graded)
Quiz: Week 1: Assignment 1
• Week 1 Feedback Form: Introduction to probability and Statistics
Week 2
Week 3
Week 4
DOWNLOAD VIDEOS
Text Transcripts
Books

## Week 1: Assignment 1 The due date for submitting this assignment has passed. Due on 2023-02-08, 23:59 IST. Assignment submitted on 2023-02-06, 21:41 IST 1) The following is an example of categorical data Nominal Interval Ratio Yes, the answer is correct. Score: 1 Accepted Answers: Nominal

2) vvnat type of data does an Aadnar number represent?	1 point
Nominal	
Ordinal	
○ Interval	
Ratio	
Yes, the answer is correct. Score: 1	
Accepted Answers:	
Nominal	
3) What type of data does a pin code represent?	1 point
Nominal	
Ordinal	
○ Interval	
Ratio	
Yes, the answer is correct. Score: 1	
Accepted Answers:	
Nominal	
4) What type of data does age of a person represent?	1 point
○ Nominal	
Ordinal	
○ Interval	
Ratio	
Yes, the answer is correct.	
Score: 1	
Accepted Answers: Ratio	
5) At the end of a taxi ride you are asked to rate the experience from bad to very good. What type of data is it	1 point
O Nominal data – cross sectional	
Ordinal data - Cross sectional	
O Nominal data – time series	
Ordinal data – time series	
Yes, the answer is correct. Score: 1	
Accepted Answers: Ordinal data – Cross sectional	
6) Out of 500 seats, the ruling party has 300 seats. Which chart would you use to represent this data?	1 point
Pie chart	
O Horizontal bar chart	
○ Vertical bar chart	
○ Histogram	
Yes, the answer is correct. Score: 1	
Accepted Answers: Pie chart	
7) Out of 50 people surveyed, 25 strongly agreed to the idea, 20 just agreed while 5 did not agree. What chart would you use to represent this data?	1 point
O Pie chart	
bar chart	
○ Histogram	
Yes, the answer is correct. Score: 1	
Accepted Answers:	
bar chart	

Hint: if your answer is	100°, just write 100
8) pie chart angle(3600)	···· , ,
216	-
Yes, the answer is correct. Score: 1	
Accepted Answers: (Type: Numeric) 216	
,	1
9) pie chart angle(2400)	
144	
Yes, the answer is correct. Score: 1	
Accepted Answers: (Type: Numeric) 144	
(1)//	1
Out of 180 users, 42 used Internet epresented this data using a pie o	t explorer, 60 used Mozilla Firefox and 78 used Google chrome. What are the angles i
spresented this data dailig a pie t	arent:
Hint: if your answer is 100	0°, just write 100
10) Pie chart angle (explorer)	
94.4	
No, the answer is incorrect.	
Score: 0 Accepted Answers:	
(Type: Numeric) 84	
	1
11) Pie chart angle (Mozilla Firef	fox )
133.3	
No, the answer is incorrect.	
Score: 0 Accepted Answers:	
(Type: Numeric) 120	
	1
12) Pie chart angle (Google chro	ome)
162.2	
No, the answer is incorrect. Score: 0	
No, the answer is incorrect.	
No, the answer is incorrect. Score: 0 Accepted Answers:	1
No, the answer is incorrect. Score: 0 Accepted Answers:	1
No, the answer is incorrect. Score: 0 Accepted Answers: (Type: Numeric) 156	athematics, 70% in Science and 75% in English. Which chart would you use to
No, the answer is incorrect. Score: 0 Accepted Answers: (Type: Numeric) 156	
No, the answer is incorrect. Score: 0 Accepted Answers: (Type: Numeric) 156  13) A student secured 85% in Mageresent this data? (Bar/Pie)	
No, the answer is incorrect. Score: 0 Accepted Answers: (Type: Numeric) 156  13) A student secured 85% in Mageresent this data? (Bar/Pie)  Bar Chart Pie Chart Histogram	
No, the answer is incorrect. Score: 0 Accepted Answers: (Type: Numeric) 156  13) A student secured 85% in Magnetic data? (Bar/Pie)  Bar Chart Pie Chart	

par onar.	
14) Any data outside the boxes in a box plot are outliers and have to be removed	1 point
○ True	
False	
Yes, the answer is correct. Score: 1	
Accepted Answers: False	
15) If the median size of 1000 songs is 2MB, will they always fit in a 2GB disc	1 point
○Yes	
◎ No	
Yes, the answer is correct. Score: 1	
Accepted Answers: No	
16) Find the variance of the sample that has age of a 5 students 19, 20, 22, 16, 26?	
(Hint: Write your answers up to 2 decimal points)	
10	
No, the answer is incorrect. Score: 0	
Accepted Answers: (Type: Range) 13.79,13.81	
	1 point
17) The marks obtained by 15 students in an exam are 2, 90, 6, 77, 45, 54, 60, 99, 12, 27, 69, 66, 77, 12 and	d 17. Find the
inter quartile range? Hint: Write your answer as whole numbers	
50	
No, the answer is incorrect. Score: 0	
Accepted Answers: (Type: Numeric) 65	
	1 point
The marks obtained by 15 students in an exam are 2, 91, 6, 77, 45, 54, 60, 99, 12, 27, 69, 66, 77, 12 and 17. Find variance of the sample?	ind the mean
18) mean of the sample(Hint: Write your answers up to 2 decimal points)	
39.8	
No, the answer is incorrect. Score: 0	
Accepted Answers: (Type: Range) 47.55,47.65	
	1 point
19) variance of the sample(Hint: Write your answers up to 2 decimal points)	·
1299.05	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
(Type: Range) 1068.35,1068.45	
	1 point