Answer Submitted.

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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Python for Data Science (course)



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Course outline

> **About** NPTEL ()

How does an **NPTEL** online course work? ()

Week 0 ()

- Python Setup Guide (unit? unit=16&lesso n=17)
- O Practice: Week 0: **Assignment 0**

exam Week O: Assignment 0 (https://examform.nptel.ac.in/2024_10/exam_form/dashboard_np

Assignment not submitted

Note: This assignment is only for practice purpose and it will not be counted towards the Final score.

- 1) Statistics and Probability is the title of a book. If each letter was carved into a 1 point block and dropped into a bag, what are the chances a person would draw either the letter A or I from the bag?
 - 07/24
 - \bigcirc 3 / 24
 - $\bigcirc 1/6$
 - $\bigcirc 1/4$

Yes, the answer is correct.

Score: 1

Accepted Answers:

7/24

- 2) A manufacturing company is set up in two different locations. If the number of 1 point employees in one location are 663, and the average monthly salary for their employees is \$13454, and the number of employees in the other location are 504, and the average monthly salary for their employees is \$17591. Find the combined arithmetic mean of the monthly salary?
 - \$15804.33
 - O \$15522.5
 - \$15240.67
 - O None of these

Yes, the answer is correct.

Score: 1

Accepted Answers:

\$15240.67

(assessment? name=141)
Week 1 ()
Download Videos ()
Books ()
Text Transcripts ()

3) Given 2 samples, Sample 1 = [13.3, 2.4, 10, 13.3, 11] and Sample 2 = [8.5, 7.1, **1 point** 12.6, 11.5, 10.3]. Find the sample which has a relatively greater spread of values from the mean?

Sample 1	
○ Sample 2	
O Both the samples are equally spread	t
O None of these	
Yes, the answer is correct. Score: 1	

Accepted Answers:

Sample 1

4) Given below is tabular data on a test conducted recently to detect a new mutant of **1 point** the coronavirus.

Header	Tested Positive	Tested Negative
Infected	54	138
Not Infected	173	111

Find the number of people who have not actually contracted the virus yet have been tested positive?

138227284173

Yes, the answer is correct.

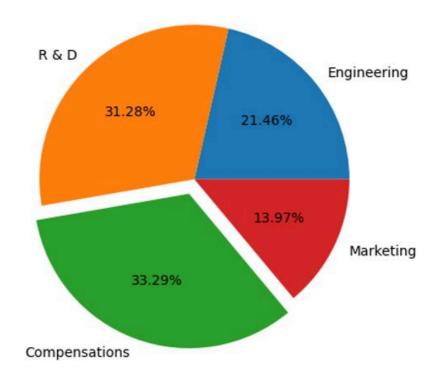
Score: 1

Accepted Answers:

173

5) Given a pie chart that indicates the expenditure of a manufacturing organization **1 point** towards various activities, what is the ratio of expenditure for the R & D department to the Marketing department?

Pie chart of the company's expenditure



01:1.54

01:0.65

0 1:0.44

O None of these

Yes, the answer is correct.

Score: 1

Accepted Answers:

1:0.44

6) Ben is the customer relation manager at a hotel. Recently, Ben has been receiving 1 point customer feedback saying that the customers had to wait too long to be served by a customer service representative. Ben decides to note down the customer's waiting time in minutes. What kind of graph would be appropriate to check the frequency distributions of customers' waiting time?

O Line plot

O Bar plot

Histogram

O Scatter plot

Yes, the answer is correct.

Score: 1

Accepted Answers:

Histogram

7) 3 natural numbers are chosen at random. What is the probability that their product yields an odd number?	1 point
1 / 8	
○1/6	
O 2 / 3	
○1/2	
Yes, the answer is correct. Score: 1	
Accepted Answers: 1 / 8	
8) The mean of the first n natural numbers is	1 point
○ n!	
○ (n / 2) + 1	
(n + 1) / 2	
\bigcirc n ²	
Yes, the answer is correct. Score: 1	
Accepted Answers:	
(n+1)/2	
9) 128 players are participating in a knockout tournament. How many games are required to decide the winner? Note: In a knockout tournament, whenever two people play, the loser is eliminated and the prince of the poor to the	1 point e
winner advances to the next round.	
○ 124	
127	
○ 64	
○ 130	
Yes, the answer is correct. Score: 1	
Accepted Answers: 127	
10) Given $[x_1,x_2,x_3,\ldots,x_n]$ are the possible values of a random variable X, and p_1,p_2,p_3,\ldots,p_n be the corresponding probabilities to each value of the random variab mean is computed by the formula	<i>1 point</i> le. The
$\sum_{i=1}^{n} p_i \ \sum_{i=1}^{n} p_i x_i \ \sum_{i=1}^{n} x_i$	
n	

O None of these

Yes, the answer is correct.

Score: 1

Accepted Answers: $\sum_{i=1}^n \ p_i x_i$

Check Answers and Submit

Your score is: 10/10