

Unit 6 - Week 4

Course outline

How to access the portal

Week 0

Week 1

Week 2

Week 3

Week 4

☐ Lecture 12: Box Plots

☐ Lecture 13: Business Intelligence & Analytics

☐ Lecture 14: Normal Distribution

☒ Quiz : Assignment - 4

☐ Solutions - Assignment 4

☐ Feedback form for week 4

Week 5

Week 6

Week 7

Week 8

Assignment - 4

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2019-09-25, 23:59 IST.

1) The meteorology department maintains the data of the average rainfall to study the variations. At a particular location, the average annual rainfall for **2 points** the month of July for the past 25 years is as shown below (in cm.):

Table1. Average annual rainfall

Year	1994	1995	1996	1997	1998	1999	2000	2001
Rainfall (in cm)	186.03	223.44	127.34	123.39	119.66	78.07	159.99	206.09
Year	2002	2003	2004	2005	2006	2007	2008	2009
Rainfall (in cm)	68.93	107.62	146.8	176.53	116.72	34.24	178.26	41.28
Year	2010	2011	2012	2013	2014	2015	2016	2017
Rainfall (in cm)	116.81	100.02	204.4	108.3	98.91	151.55	228.28	102.7
Year	2018							
Rainfall (in cm)	113.03							

What is the median of the data?

- ☐ 94.62 c.m.
- ☐ 119.66 c.m.
- ☐ 134.28 c.m.
- ☐ 125.24 c.m.

No, the answer is incorrect.
Score: 0

Accepted Answers:
119.66 c.m.

2) As per the data given in the Table 1, what is the inter-quartile range of the data?

2 points

- ☐ 60.45
- ☐ 102.70
- ☐ 73.83
- ☐ 99.55

No, the answer is incorrect.
Score: 0

Accepted Answers:
73.83

3) As per the data given in the Table 1, calculate the upper outlier fence for the data.

2 points

- ☐ 176.53 c.m.
- ☐ 398.02 c.m.
- ☐ 473.83 c.m.
- ☐ 252.36 c.m.

No, the answer is incorrect.
Score: 0

Accepted Answers:
398.02 c.m.

4) Consider that the data given in Table 1 follows a normal distribution. Calculate the Z-score for expecting 211 c.m. of rainfall in a particular year.

2 points

- ☐ 1.49
- ☐ 2.24
- ☐ 3.16
- ☐ 2.72

No, the answer is incorrect.
Score: 0

Accepted Answers:
1.49

5) *BI represents the entire analytics operation.*
Is the statement above, true or false?

2 points

- ☐ True
- ☐ False

No, the answer is incorrect.
Score: 0

Accepted Answers:
False