

# Unit 7 - Week 6

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## Assignment 6

The due date for submitting this assignment has passed. Due on 2020-04-08, 23:59 IST.  
As per our records you have not submitted this assignment.

1) Questions 1 to 10 are based on the following data set. 1 point

A group of 200 students participated in a test in which the time allowed was 30 minutes. The time to complete the test (in minutes) is stored in a data vector **testtime** as follows:  
19.72, 27.14, 14.32, 23.81, 26.42, 9.68, 16.80, 5.80, 3.19, 6.53, 4.93, 16.35, 27.03, 15.90, 20.13, 11.16, 8.07, 17.30, 26.26, 14.98, 20.53, 29.58, 7.73, 29.99, 25.71, 4.50, 20.53, 15.82, 13.75, 9.82, 19.87, 28.79, 21.85, 7.93, 18.40, 0.74, 12.57, 24.55, 17.95, 16.10, 5.78, 28.13, 27.80, 15.14, 14.65, 19.32, 28.83, 12.15, 29.50, 24.30, 12.49, 9.66, 29.71, 13.68, 9.50, 9.80, 5.94, 23.73, 11.58, 15.68, 6.04, 13.92, 18.67, 16.12, 21.90, 21.76, 10.27, 25.96, 24.38, 24.80, 20.71, 8.54, 26.01, 18.45, 10.45, 3.45, 11.03, 3.94, 1.50, 12.36, 11.94, 4.61, 9.04, 13.74, 22.93, 4.91, 23.98, 16.42, 9.85, 8.48, 7.42, 21.03, 10.68, 1.06, 29.35, 15.06, 13.23, 10.36, 21.13, 27.80, 22.12, 10.01, 10.36, 17.98, 23.11, 28.70, 24.24, 3.80, 9.90, 8.75, 17.05, 22.91, 24.03, 5.21, 4.99, 27.52, 29.95, 4.90, 16.23, 1.22, 4.56, 21.55, 14.09, 7.23, 13.71, 20.33, 17.08, 19.96, 2.01, 11.93, 23.57, 21.42, 18.21, 21.65, 4.90, 6.74, 25.94, 1.01, 3.53, 18.68, 14.71, 4.82, 10.35, 19.05, 27.48, 13.58, 14.40, 22.63, 0.06, 12.24, 24.51, 8.02, 3.27, 14.62, 17.27, 1.61, 14.21, 4.26, 7.44, 16.40, 16.49, 28.52, 10.75, 11.64, 8.51, 16.20, 25.42, 5.56, 1.75, 22.53, 14.22, 26.09, 17.71, 20.93, 6.91, 9.47, 6.77, 23.05, 3.42, 25.32, 9.20, 19.43, 5.07, 24.55, 17.22, 3.56, 20.14, 24.67, 8.95, 8.65, 14.03, 14.68, 9.89, 28.13, 23.40, 10.46, 25.03, 16.64, 6.47, 2.38

The second raw moment of the data in **testtime** is

- 1.0
- 15.1435
- 294.7984
- 6479.7924

No, the answer is incorrect. Score: 0  
Accepted Answers: 294.7984

2) The fourth raw moment of the data in **testtime** is 1 point

- 15.1435
- 294.7984
- 6479.7924
- 152827.6193

No, the answer is incorrect. Score: 0  
Accepted Answers: 152827.6193

3) The second central moment of the data in **testtime** is 1 point

- 1.000000
- 65.47278
- 32.53931
- 8178.856

No, the answer is incorrect. Score: 0  
Accepted Answers: 65.47278

4) The third central moment of the data in **testtime** is 1 point

- 1.000000
- 65.47278
- 32.53931
- 8178.856

No, the answer is incorrect. Score: 0  
Accepted Answers: 32.53931

5) The second absolute moment of the data in **testtime** is 1 point

- 15.1435
- 294.7984
- 6479.7924
- 152827.6193

No, the answer is incorrect. Score: 0  
Accepted Answers: 294.7984

6) The fourth absolute moment of the data in **testtime** is 1 point

- 15.1435
- 294.7984
- 6479.7924
- 152827.6193

No, the answer is incorrect. Score: 0  
Accepted Answers: 152827.6193

7) The frequency distribution of the data in **testtime** is 1 point

- negatively skewed
- symmetric
- positively skewed
- nothing can be said

No, the answer is incorrect. Score: 0  
Accepted Answers: positively skewed

8) The frequency distribution of the data in **testtime** is 1 point

- leptokurtic
- mesokurtic
- platykurtic
- nothing can be said

No, the answer is incorrect. Score: 0  
Accepted Answers: leptokurtic

9) The coefficient of skewness ( $\gamma_1$ ) moment of the data in **testtime** is 1 point

- 0.06142105
- 0.06142105
- 1.907968
- 1.907968

No, the answer is incorrect. Score: 0  
Accepted Answers: 0.06142105

10) The coefficient of kurtosis ( $\gamma_2$ ) moment of the data in **testtime** is 1 point

- 0.261269
- 0.261269
- 1.907968
- 1.907968

No, the answer is incorrect. Score: 0  
Accepted Answers: 1.907968

11) Questions 11 to 20 are based on the following data set. 1 point

A group of 200 students participated in a test in which the time allowed was 30 minutes. Few observations out of 200 observations got missed and were recorded as **NA**. The time to complete the test (in minutes) is stored in a data vector **testtimena** as follows:  
19.72, 27.14, 14.32, 23.81, 26.42, 9.68, 16.80, 5.80, 3.19, 6.53, 4.93, 16.35, 27.03, 15.90, 20.13, 11.16, 8.07, 17.30, 26.26, NA, 20.53, 29.58, 7.73, 29.99, 25.71, 4.50, 20.53, 15.82, 13.75, 9.82, 19.87, 28.79, 21.85, 7.93, 18.40, 0.74, 12.57, 24.55, 17.95, 16.10, 5.78, 28.13, 27.80, 15.14, 14.65, 19.32, 28.83, 12.15, 29.50, 24.30, NA, 9.66, 29.71, 13.68, 9.50, 9.80, 5.94, 23.73, 11.58, 15.68, 6.04, 13.92, 18.67, 16.12, 21.90, 21.76, 10.27, 25.96, 24.38, 24.80, 20.71, 8.54, 26.01, 18.45, 10.45, 3.45, 11.03, 3.94, 1.50, 12.36, 11.94, 4.61, 9.04, 13.74, 22.93, 4.91, 23.98, 16.42, 9.85, 8.48, 7.42, 21.03, NA, 1.06, 29.35, 15.06, 13.23, 10.36, 21.13, 27.80, 22.12, 10.01, 10.36, 17.98, 23.11, 28.70, 24.24, 3.80, 9.90, 8.75, 17.05, 22.91, 24.03, 5.21, 4.99, 27.52, 29.95, 4.90, 16.23, 1.22, 4.56, 21.55, 14.09, 7.23, 13.71, 20.33, NA, 19.96, 2.01, 11.93, 23.57, 21.42, 18.21, 21.65, 4.90, 6.74, 25.94, 1.01, 3.53, 18.68, 14.71, 4.82, 10.35, 19.05, 27.48, 13.58, 14.40, 22.63, 0.06, 12.24, 24.51, 8.02, 3.27, 14.62, 17.27, 1.61, 14.21, 4.26, 7.44, 16.40, 16.49, 28.52, 10.75, 11.64, 8.51, 16.20, 25.42, 5.56, 1.75, 22.53, 14.22, 26.09, 17.71, 20.93, 6.91, 9.47, 6.77, 23.05, 3.42, 25.32, 9.20, NA, 5.07, 24.55, 17.22, 3.56, 20.14, 24.67, 8.95, 8.65, 14.03, 14.68, 9.89, 28.13, 23.40, 10.46, 25.03, 16.64, 6.47, 2.38

The first raw moment of the data in **testtimena** is

- 1.000000
- 15.14892
- 296.38954
- 6549.29405

No, the answer is incorrect. Score: 0  
Accepted Answers: 15.14892

12) The fourth raw moment of the data in **testtimena** is 1 point

- 15.14892
- 296.38954
- 6549.29405
- 155129.19340

No, the answer is incorrect. Score: 0  
Accepted Answers: 155129.19340

13) The second central moment of the data in **testtimena** is 1 point

- 1.000000
- 66.89967
- 32.39597
- 8383.762

No, the answer is incorrect. Score: 0  
Accepted Answers: 66.89967

14) The third absolute moment of the data in **testtimena** is 1 point

- 15.14892
- 296.38954
- 6549.29405
- 155129.19340

No, the answer is incorrect. Score: 0  
Accepted Answers: 6549.29405

15) The third central moment of the data in **testtimena** is 1 point

- 1.000000
- 66.89967
- 32.39597
- 8383.762

No, the answer is incorrect. Score: 0  
Accepted Answers: 32.39597

16) The fourth absolute moment of the data in **testtimena** is 1 point

- 15.14892
- 296.38954
- 6549.29405
- 155129.19340

No, the answer is incorrect. Score: 0  
Accepted Answers: 155129.19340

17) The frequency distribution of the data in **testtimena** is 1 point

- negatively skewed
- symmetric
- positively skewed
- nothing can be said

No, the answer is incorrect. Score: 0  
Accepted Answers: positively skewed

18) The coefficient of skewness ( $\gamma_1$ ) moment of the data in **testtime** is 1 point

- 0.05920455
- 0.05920455
- 1.87323
- 1.87323

No, the answer is incorrect. Score: 0  
Accepted Answers: 0.05920455

19) The frequency distribution of the data in **testtimena** is 1 point

- leptokurtic
- mesokurtic
- platykurtic
- nothing can be said

No, the answer is incorrect. Score: 0  
Accepted Answers: leptokurtic

20) The coefficient of kurtosis ( $\gamma_2$ ) moment of the data in **testtime** is 1 point

- 0.05920455
- 0.05920455
- 1.87323
- 1.87323

No, the answer is incorrect. Score: 0  
Accepted Answers: 1.87323