

## HOMEWORK: DESCRIPTIVE STATISTICS

COMPUTE ALL DESCRIPTIVE STATISTICS – mean, median, mode, quartiles, range, interquartile range, variance, standard deviation, coefficient of variation. Choose one of the following problems and convert the data to Z-scores. Check your work (you will only be able to check some of the descriptive statistics) using MS Excel. Submit the Excel output with the rest of your work.

PROBLEM 1: #colds / year; n=16 subjects

10; 8; 5; 2; 3; 3; 3; 6; 4; 2; 4; 5; 4; 4; 1; 0

PROBLEM 2: average wait in minutes for a train; n=15

45  
4  
5  
5  
6  
12  
17  
10  
10  
11  
8  
15  
16  
9  
0

PROBLEM 3: # employee absences; n = 12 employees

1; 0; 1; 4; 6; 2; 2; 3; 2; 2; 1; 0

PROBLEM 4: Quiz scores ☹

n = 13 students

5    0    9    10    6    10    8    0    0    7    10    0  
0

PROBLEM 5: # defects in a sample of 12 cars

(n=12)

9	3	8	8	2	12	10	10	63	22	18	15
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PROBLEM 6: Time to do job (minutes)

n = 20 employees

10; 16; 15; 11; 12; 8; 8; 7; 6; 5; 9; 4; 5; 13; 14; 10; 15; 10; 12; 10

PROBLEM 7: Yield in Bushels for Farmer Jones Apple Orchard; n = 16 trees

4    4    2    2    3    3    1    2    2    1    10    7    8    6    5    5

PROBLEM 8: Employee Absences at the XYZ Company three month period: n = 16 employees

9    9    7    7    7    10    12    0    0    1    1    3    4    5    6    8

PROBLEM 9: Number of passengers – B99 Train to JFK; n =10 randomly selected days

200    60    70    120    100    100    90    80    90    90