

Name: _____

MBF3C – Statistics – Assignment

The two sets of data below contain the midterm grades of the MBF3C courses I taught last year. You are to analyze the two sets of data and make some conclusions about the two classes.

INCLUDE ALL ROUGH WORK AND CALCULATIONS ON SEPARATE PAPER

<u>Class 1</u>					<u>Class 2</u>				
59	71	95	67	81	88	56	52	70	23
48	51	59	75	94	77	55	58	73	88
92	82	81	91	76	96	86	66	49	
79	92	94	94	78	83	56	81	85	
65	51	87	73	42	51	70	53	33	

1. Complete the table below: (20 marks K)

INCLUDE ROUGH WORK AND ALL CALCULATIONS ON SEPARATE PAPER

	Max	Min	Range	Mean (\bar{x})	Median	Mode
Class 1						
Class 2						

2. Create a histogram to represent the grade distributions for each class separately. Be sure to complete the frequency distribution tables first. (20 marks A)
Although data from each class is different, use the SAME INTERVALS for both!

HINT: USE THE OVERALL RANGE TO DETERMINE INTERVALS

INCLUDE INTERVAL CALCULATION ON A SEPARATE SHEET

3. Grades are often represented as letters:

A: 80+	B: 70-79	C: 60-69	D: 50-59	F: Below 50
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Create a bar graph and a circle graph to represent the letter grade distributions for each class separately. (20 marks A)

INCLUDE CIRCLE GRAPH ANGLE CALCULATION ON A SEPARATE SHEET

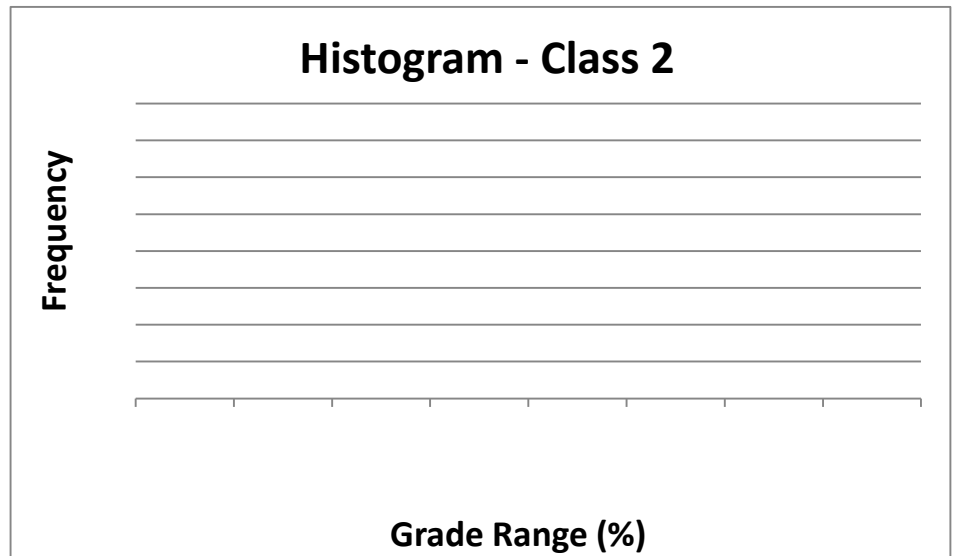
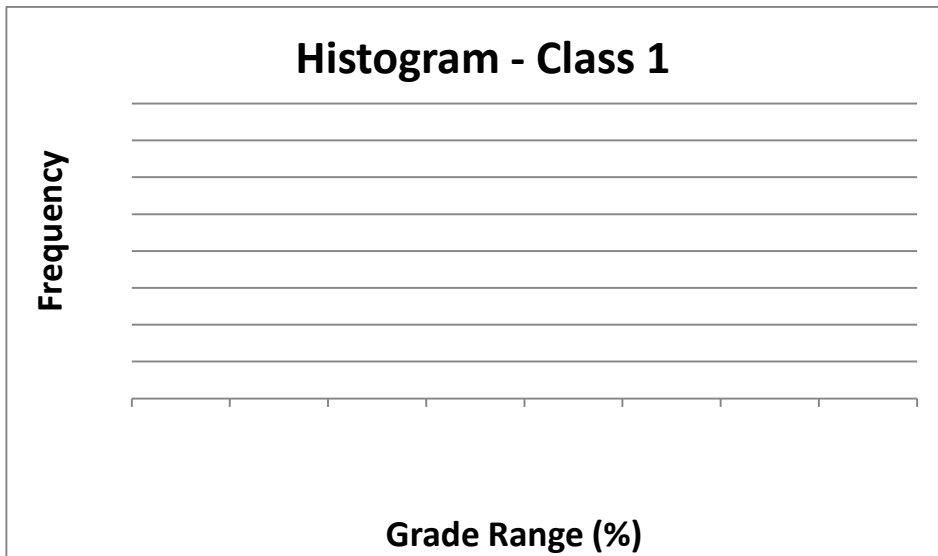
4. Use the tables provided to calculate the standard deviation for each class separately
YOU MAY FIRST ROUND YOUR MEANS TO THE NEAREST WHOLE NUMBER (20 marks K)
SHOW ALL OF YOUR WORK AND FINAL CALCULATIONS!

****A COMMUNICATION MARK OUT OF 5 WILL BE GIVEN FOR EACH GRAPH TOTALLING 30 MARKS****

Name: _____

Frequency Distribution Table – Class 1		
Grade (x)	Frequency (f)	Cumulative Frequency

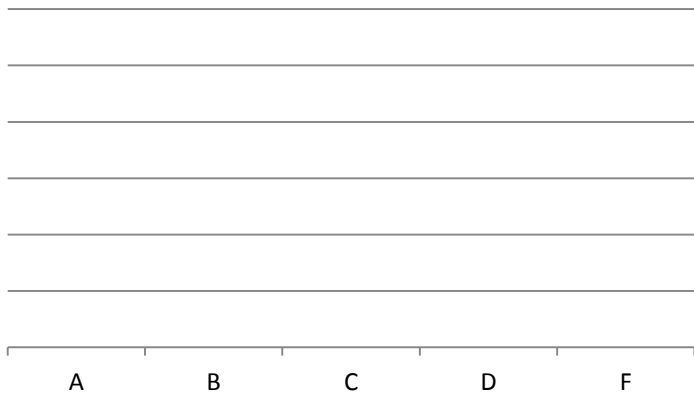
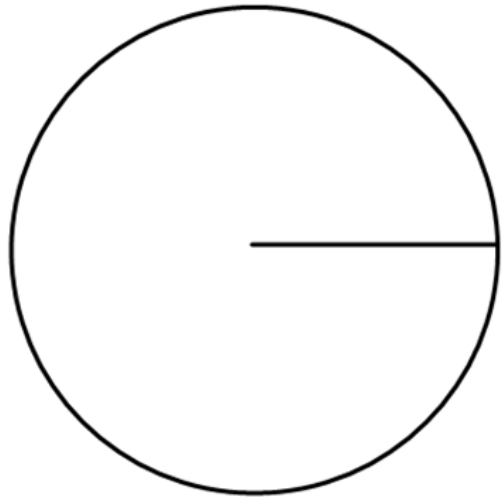
Frequency Distribution Table – Class 2		
Grade (x)	Frequency (f)	Cumulative Frequency



Name: _____

Class 1

Letter Grade	A	B	C	D	F
Frequency					



Class 2

Letter Grade	A	B	C	D	F
Frequency					

