Dr. Spock and Mr. Data both teach advanced classes at the star fleet academy.

Dr. Spock is from the old school and his grading scale is the 7% scale meaning below 70 is failing grade, 70 to 76 is a D, 77 to 84 is a C, and 85 to 92 is a B, and 93 and above is an A

Mr. Data is definitely not from the old school, his grading scale is the 10% scale, this is the scale that you enjoy at Richwoods High School. This scale has scores below a 60 as failing, 60 to 69 is a D, 70 to 79 is a C, 80 to 89 is a B, and 90 and above is an A.

Spock Scores	Sorted Spock	Data Scores	Sorted Data	Frequency Table for Spock's scores	Frequency Table for Data's Scores
103.2		46.1		A (92.5 and above)	A (89.5 and above)
77.7		100.			
66.2		92.2			
59.5		79.2			
44.7		63.2		B (84.5 to 92.4)	B (79.5 to 89.4)
69.6		84.7			
75.1		54.6			
46.6		68.6			
100.		66.9		C (76.5 to 84.4)	C (69.5 to 79.4)
78.1		57.2			
84.7		79.7			
90.9		79.2			
70.		80.		D (69.5 to 76.4)	D (59.5 to 69.4)
88.7		80.4			
86.		87.7			
64.5		99.4			
87.6		83.6		F (0 to 69.4)	F (0 to 59.4)
92.7		44.			
79.1		58.4			
53.6		96.2			
104.2		60.		Median of the all scores	Median of the all scores
96.		25.2			
78.2		90.9			
93.2		70.2			
Class mean	Class Mode	Class mean	Class Mode	Median of first half of the scores	Median of first half of the scores
	Sum of all scores		Sum of all scores	Median of the second half of the scores	Median of the second half of the scores
	1890.1		1747.6		

Spock's Bar Chart 1

Data's Bar Chart 1

Spock Box Plot 1

0 9	10 19	20 29	30 39	40 49	50 59	60 69	70 79	80 89	90 99	100 above

Data Box Plot 1

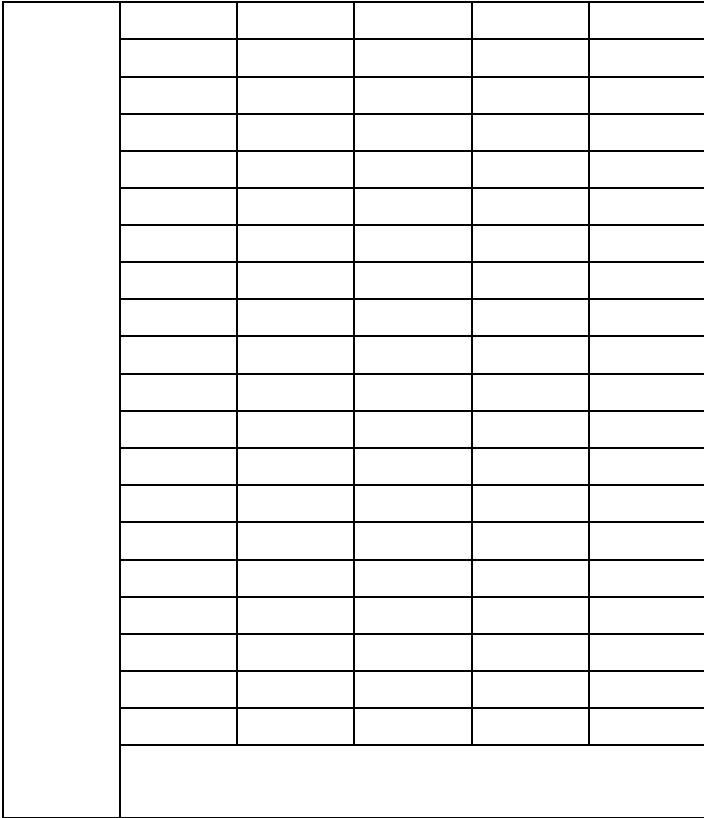| 0 9	10 19	20 29	30 39	40 49	50 59	60 69	70 79	80 89	90 99	100 above

Now that we have practiced two of these together, you should be able to do two on your own

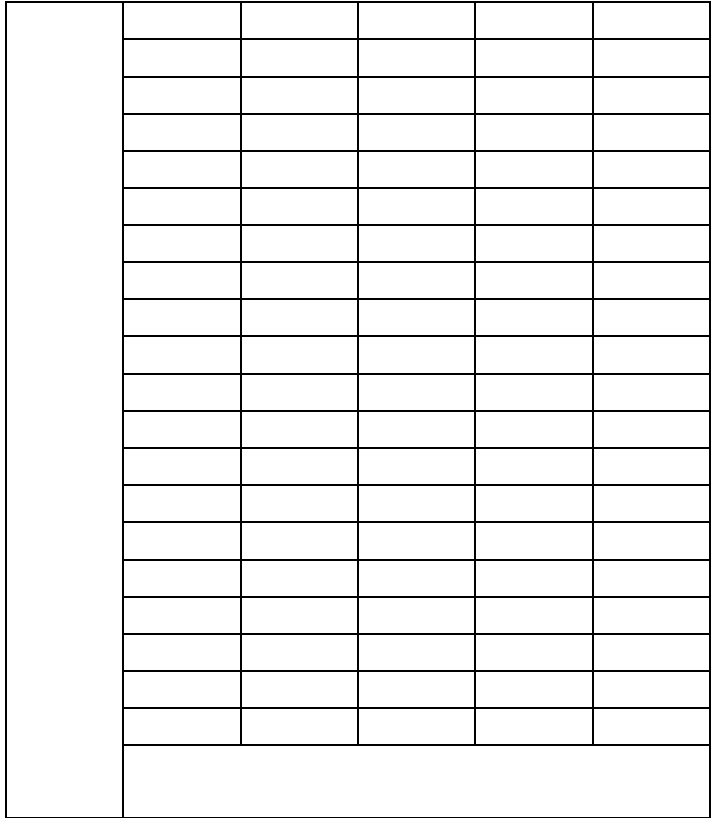| Spock Scores 2	Sorted Spock 2	Data Scores 2	Sorted Data 2	Frequency Table 2 for Spock's scores	Frequency Table 2 for Data's Scores
73.		57.5		A (92.5 and above)	A (89.5 and above)
93.5		100.5			
71.		86.5			
79.5		74.			
85.		106.		B (84.5 to 92.4)	B (79.5 to 89.4)
96.5		100.5			
74.5		81.			
68.		93.			
106.5		103.5		C (76.5 to 84.4)	C (69.5 to 79.4)
91.5		98.			
81.5		95.5			
90.5		87.5			
51.		99.		D (69.5 to 76.4)	D (59.5 to 69.4)
88.5		74.			
69.5		103.5			
12.5		107.5			
68.		84.5		F (0 to 69.4)	F (0 to 59.4)
90.5		84.			
87.		81.			
73.5		97.			
72.5		88.		Median of the all scores	Median of the all scores
85.		72.5			
97.5		100.5			
97.5		84.			
81.					
59.5					
Class mean	Class Mode	Class mean	Class Mode	Median of first half of the scores	Median of first half of the scores
	Sum of class scores		Sum of class scores	Median of the second half of the scores	Median of the second half of the scores
	2044.5		2159.		

Hint: enter this data on a list page on an TI Nspire and we can quickly check your progress

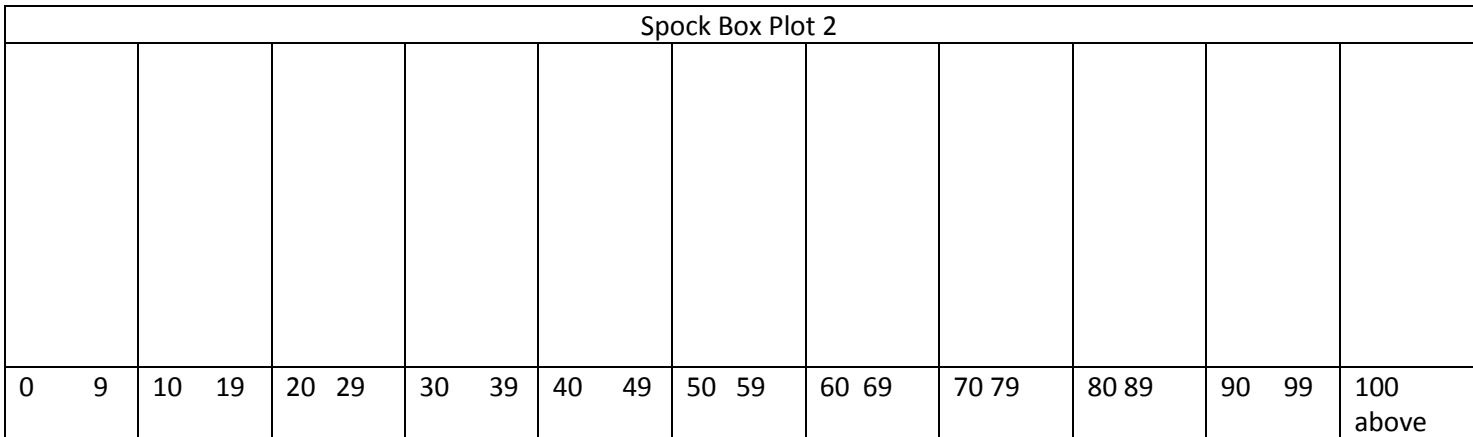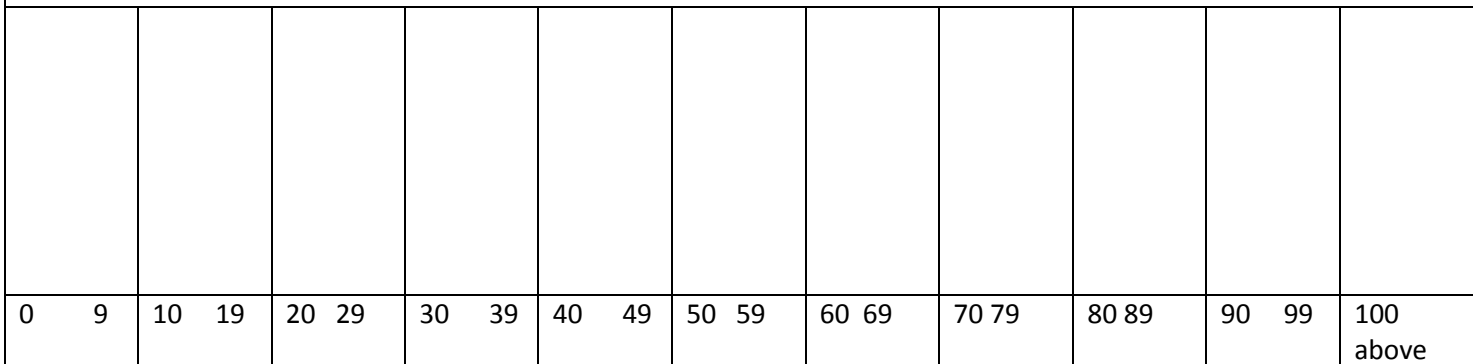Use these list names spock2, and data2 (NO GAPS IN NAMES OF LISTS)

Spock's Bar Chart 2

Data's Bar Chart 2

Spock Box Plot 2

0 9	10 19	20 29	30 39	40 49	50 59	60 69	70 79	80 89	90 99	100 above

Data Box Plot 2

0 9	10 19	20 29	30 39	40 49	50 59	60 69	70 79	80 89	90 99	100 above

Frequency Table 3 for Spock's scores		Frequency Table 3 for Data's Scores	
A (92.5 and 100)		A (89.5 and 100)	
8		9	
B (84.5 to 92.4)		B (79.5 to 89.4)	
5		5	
C (76.5 to 84.4)		C (69.5 to 79.4)	
7		2	
D (69.5 to 76.4)		D (59.5 to 69.4)	
3		5	
F (59.5 to 69.4)		F (49.5 to 59.4)	
4		3	

How many students took Dr. Spock's third test?_____

Is there a true median for this many students?_____Which grade interval does the median occur?_____

Determine the mean for Dr. Spock's third set of scores _____

Determine the median of Dr. Spock's third set of scores_____

How many students took Mr. Data's third test?_____

Is there a true median for this many students?_____Which grade interval does the true median occur?_____

Determine the mean for Mr. Data's third set of scores _____

Determine the median of Mr. Data's third set of scores_____

1. Explain in a step by step process how to create a list on a TI Nspire

2. What are you NOT allowed to name a list as? (be specific)

3. How do you get the TI Nspire to sort your list data from lowest to highest?

4. How do you get the TI Nspire to sort your list data from highest to lowest?

5. How do your determine the median of a list of twenty scores?

6. How do you find the median of the first half of a list of twenty numbers

7. How do you find the median of the second half of a list of twenty numbers

8. How do you find the median from a frequency table?

9. How do you find the median of a list of twenty-one scores

10. How do you find the median of the first half of a list of twenty-one numbers

11. How do you find the median of the second half of a list of twenty-one numbers

12. How do you find mean from a frequency table?

Captain Kirk and Captain Picard both teach advanced classes at the star fleet academy.

Captain Kirk is from the old school and his grading scale is the 7% scale meaning below 70 is failing grade, 70 to 76 is a D, 77 to 84 is a C, and 85 to 92 is a B, and 93 and above is an A

Captain Picard is definitely not from the old school, his grading scale is the 10% scale, this is the scale that you enjoy at Richwoods High School. This scale has scores below a 60 as failing, 60 to 69 is a D, 70 to 79 is a C, 80 to 89 is a B, and 90 and above is an A.

Kirk 1 Scores	Sorted Kirk 1	Picard 1 Scores	Sorted Picard 1	Frequency Table for Spock's scores	Frequency Table for Picard's Scores
50		47		A (92.5 and above)	A (89.5 and above)
54		48			
58		59			
97		58			
85		59		B (84.5 to 92.4)	B (79.5 to 89.4)
63		68			
51		51			
587		57			
95		86		C (76.5 to 84.4)	C (69.5 to 79.4)
67		93			
58		98			
49		97			
54		85		D (69.5 to 76.4)	D (59.5 to 69.4)
63		96			
83		94			
100		95			
54		85		F (0 to 69.4)	F (0 to 59.4)
64		81			
95		86			
		22			
				Median of the all scores	Median of the all scores
Class mean	Class Mode	Class mean	Class Mode	Median of first half of the scores	Median of first half of the scores
	Sum of all scores		Sum of all scores	Median of the second half of the scores	Median of the second half of the scores
	1827		1465		

Kirk's Bar Chart 1

Picard's Bar Chart 1

Kirk Box Plot 1

0 9	10 19	20 29	30 39	40 49	50 59	60 69	70 79	80 89	90 99	100 above

Picard Box Plot 1

0 9	10 19	20 29	30 39	40 49	50 59	60 69	70 79	80 89	90 99	100 above

Kirk Scores 2	Sorted Kirk2	Picard Scores 2	Sorted Picard 2	Frequency Table 2 for Spock's scores	Frequency Table 2 for Data's Scores
48		89		A (92.5 and above)	A (89.5 and above)
97		89			
56		87			
58		84			
94		85		B (84.5 to 92.4)	B (79.5 to 89.4)
62		86			
85		83			
76		85			
95		86		C (76.5 to 84.4)	C (69.5 to 79.4)
79		82			
84		81			
86		95			
83		95		D (69.5 to 76.4)	D (59.5 to 69.4)
81		96			
85		94			
94		95			
87		50		F (0 to 69.4)	F (0 to 59.4)
85		51			
		54			
		54			
		53		Median of the all scores	Median of the all scores
Class mean	Class Mode	Class mean	Class Mode	Median of first half of the scores	Median of first half of the scores
	Sum of class scores		Sum of class scores	Median of the second half of the scores	Median of the second half of the scores
	1435		1674		

Hint: enter this data on a list page on an TI Nspire and we can quickly check your progress

Use these list names kirk2, and picard2 (NO GAPS IN NAMES OF LISTS)

Kirk's Bar Chart 2

Picard's Bar Chart 2

Kirk Box Plot 2

0 9	10 19	20 29	30 39	40 49	50 59	60 69	70 79	80 89	90 99	100 above

Picard Box Plot 2

0 9	10 19	20 29	30 39	40 49	50 59	60 69	70 79	80 89	90 99	100 above

Frequency Table 3 for Kirk's scores		Frequency Table 3 for Picard's Scores	
A (92.5 and 100)		A (89.5 and 100)	
10		3	
B (84.5 to 92.4)		B (79.5 to 89.4)	
3		7	
C (76.5 to 84.4)		C (69.5 to 79.4)	
1		12	
D (69.5 to 76.4)		D (59.5 to 69.4)	
9		8	
F (59.5 to 69.4)		F (49.5 to 59.4)	
5		2	

How many students took Captain Kirk's third test?_____

Is there a true median for this many students?_____Which grade interval does the median occur?_____

Determine the mean for Captain Kirk's third set of scores _____

Determine the median of Captain Kirk's third set of scores_____

How many students took Captain Picard's third test?_____

Is there a true median for this many students?_____Which grade interval does the true median occur?_____

Determine the mean for Captain Picard's third set of scores _____

Determine the median of Captain Picard's third set of scores_____

1. Explain the issues related to determining the data from the third test

2. Why is the data from the first two tests more reliable than that of the third test?

3. How can you determine the sum of a list from a list page on a TI Nspire?

4. How can you determine the sum of a list from a calculator page on the TI Npsire?

5. Explain how to determine the box plot of a class that has 28 scores

6. Explain how to determine the box plot of a class that has 29 scores

7. Explain how to determine the box plot of a class that has 31 scores