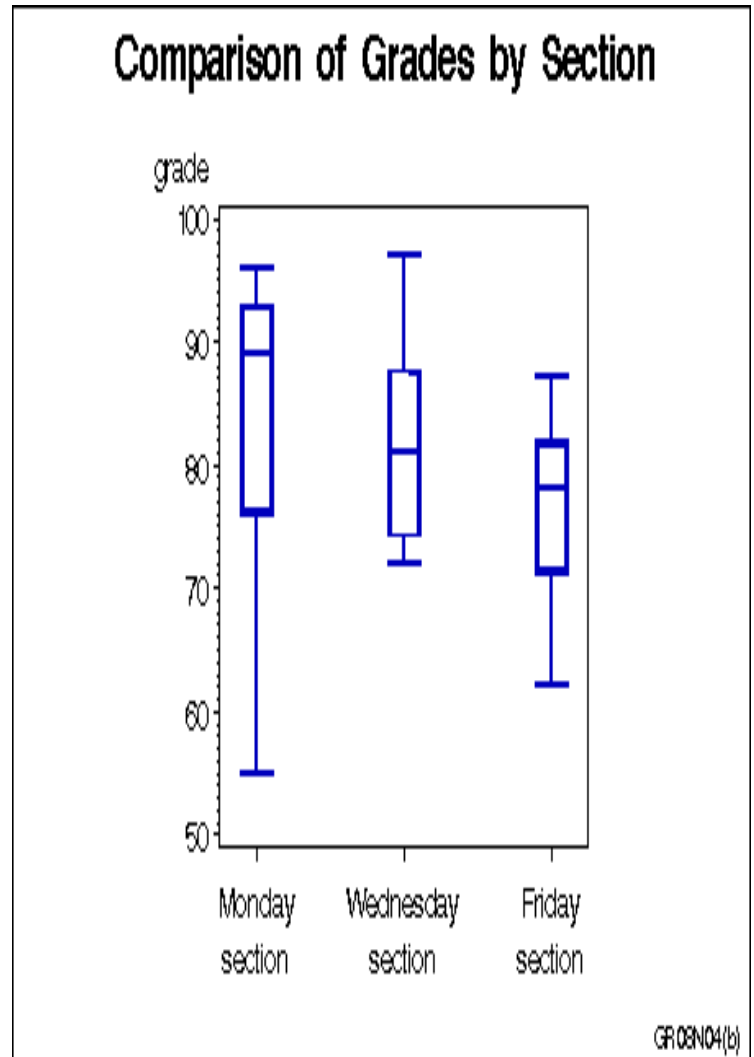


Due: In class today

- (1) For the vertical boxplots shown below, draw three histograms that *roughly* show the three distributions.



- (2) Circle the best description of each of the three distributions' shapes from the boxplots above.

Monday:	Skewed Left	Symmetric	Skewed Right
Wednesday:	Skewed Left	Symmetric	Skewed Right
Friday:	Skewed Left	Symmetric	Skewed Right

(3) For this dataset of Math 175 final exam scores . . .

6.8	51.95	61.1	66.23	70.13	76.62	85.71
40.25	53.25	62.5	66.23	70.89	77.92	86.1
41	53.25	63.64	66.7	71	79.22	87.01
44.68	54.2	63.64	66.7	72.73	80.52	89.61
45.8	54.55	63.64	66.7	73.6	81.82	90.3
49.35	58.3	63.9	68.83	74.03	81.82	93.1
50	59.7	63.9	69.4	76.4	83.3	93.1
51.15	61.1	64.94	69.4	76.62	84.42	93.1
		Mean	67.35			
		Standard Deviation	16.03			

- The student's score of 64.94 is the _____ percentile.
 - The 75th percentile is _____.
 - The z -score for the value 49.35 is _____.
 - 64.94 is _____ of a standard deviation from the mean (percentage).
 - A score of _____ would have a z -score of 2.25.
 - Find the 5-Number Summary and draw a boxplot for the data set in the space below.
-
- Determine which, if any, of the data in this set are outliers.

(4) True or False (circle):

- a. In an experimental study, the control group is the group with no changes made to the independent variable TRUE FALSE
- b. If N is even, then Q2 is an actual data point. TRUE FALSE
- c. In a distribution of z-scores, the mean is 1 and standard deviation is 0. TRUE FALSE
- d. The median is the middle number in a dataset. TRUE FALSE
- e. \bar{x} is the symbol used for population mean TRUE FALSE

Fill in the midpoints and relative frequency values in the table below and draw a relative frequency polygon next to it.

<i>Boundaries</i>		<i>Midpoint</i>	<i>Frequency</i>	<i>Cumulative Frequency</i>	<i>Relative Frequency</i>
0	11.5			2	
11.5	23			8	
23	34.5			12	
34.5	46			20	
46	57.5			30	
57.5	69			45	
69	80.5			61	
80.5	92			73	



What is the shape of the frequency distribution above? (circle one)

Normal *Uniform* *Bimodal* *Skewed Left* *Skewed Right*

