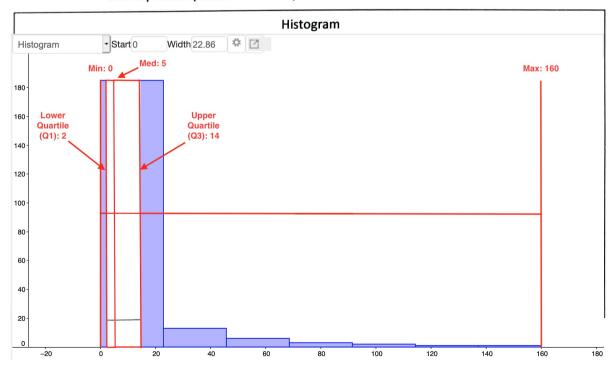
Math 18 Test #1 Fukumoto

 Social website hours per week for California 12<sup>th</sup> grades (both male and female): https://www.geogebra.org/classic/cukyv2g8

a. Using the data, fill in the following table using EXACTLY 7 CLASSES:

a. Osing the data, fill in the following table using <u>EXACTLY 7 CLASSES</u> .				
Miles per gallon	Frequency	Frequency	California	Comulative Relative Frequence
	Interval		Relative Frequency	Relative Frequent
	0-22.86	185	,88	,88
	22.86-45.72	13	.06	.94
X	45.72-68.58	6	<i>.</i> 03	.47
	68.58-91.44	3	,01	.98
	91,44-114,3	2	.01	,99
	114.3-137.16	1	0	
	137.16-160.02		0	1

b. Graph the <u>frequency histogram</u> and overlay a <u>box-plot</u> on it. <u>Scale the x-axis</u>. Label all the important point on the box-plot.



C.	Which number represents the 88 <sup>th</sup> percentile?
	$.88 \times 211 = 185.68$
	186 x 211 = 185.68 186th number
d.	
	140 x 211 = 84th number
e.	<u>Using the correct symbols</u> , what are the mean and standard deviation of the histogram?
	X= 12.3175
	V=20.5305
f.	What number represents the 97 <sup>th</sup> percentile?
	.97 X211 = 205th number
g.	Calculate a "normal" range (one standard deviation) for the number of hours on a social
	website. Make sure you show me which numbers you use to make your calculation.
	many 100 mm
	(14/3 HP-0/11
	[20,53]
h.	How many standard deviations away is 53 from the mean? Would 53 be a "normal"
	value? Why or why not? I standard deviation
	No, it would be an outlier
i.	How many standard deviations away is 12 from the mean? Would 12 be a "normal"
	value? Why or why not?  O Standard de Viations
	yes, be cause it is
	within 1 Standard
	deviation

i.