AN ANALYSIS OF STUDENTS WITH MORE THAN 10 PENS IN THEIR BACKPACK

"A" LEVEL WORK

w/ a few annotated suggestions

EXAMPLE

SUMMARY TABLE

Good

- The vast majority of students with more than 10 pens in their book bag are girls, leading us to believe that girls tend to be more prepared for class each day.

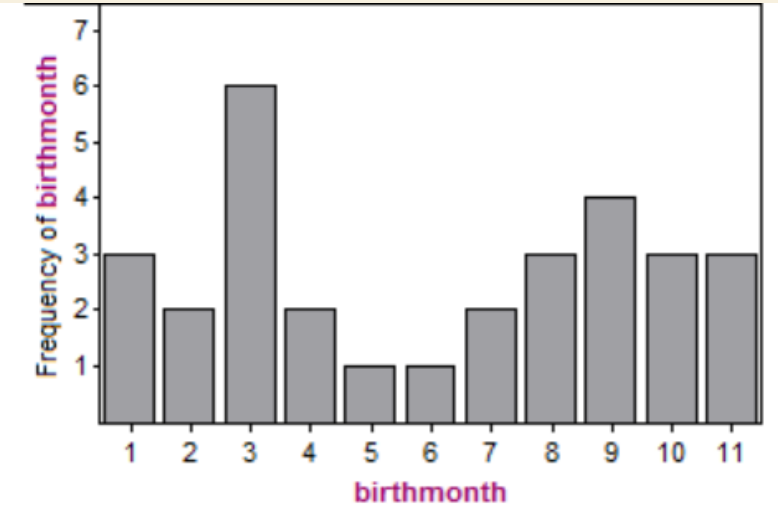
- The book categories with the largest number of students were non-fiction, mystery and history fiction showing those with more pens prefer more sophisticated books.

		Sex		Row Summary
		f	m	
book	action	0	1	1
	comedy	2	0	2
	fantasy	2	2	4
	hist fiction	5	0	5
	mystery	6	1	7
	non-fiction	3	3	6
	romance	3	0	3
	sci-fi	2	0	2
Column Summary		23	7	30

S1 = count ( )

BAR CHART

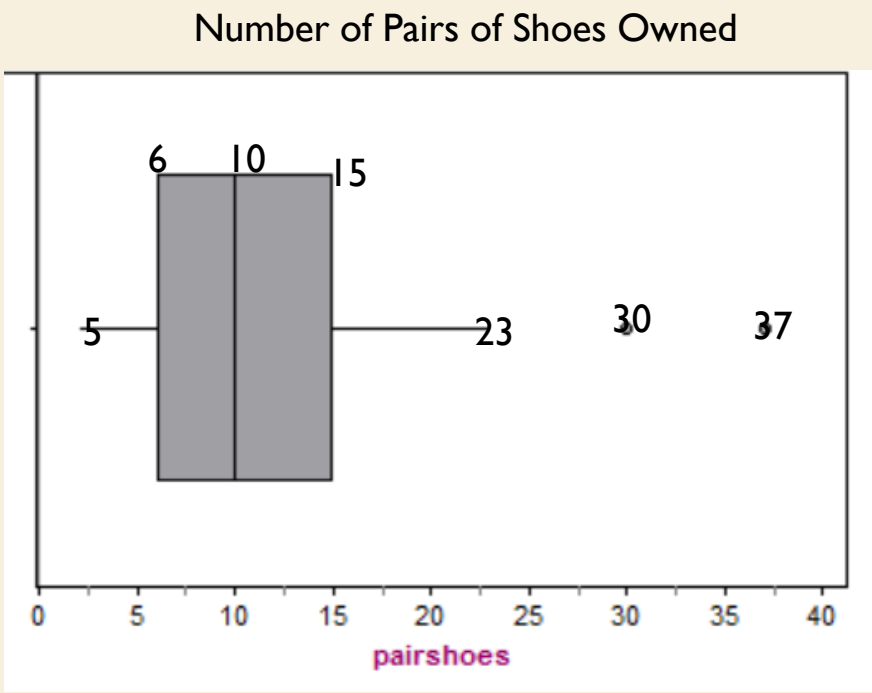
Birth Month of Students with More than 10 Pens



- March was the most frequent birth month of students with a large number of pens.
- There appears to be a decline in births during the Spring and Summer (April-July).
- How do those 30 students compare birth month wise to all population. Are both "light" with spring/summer Bdays?

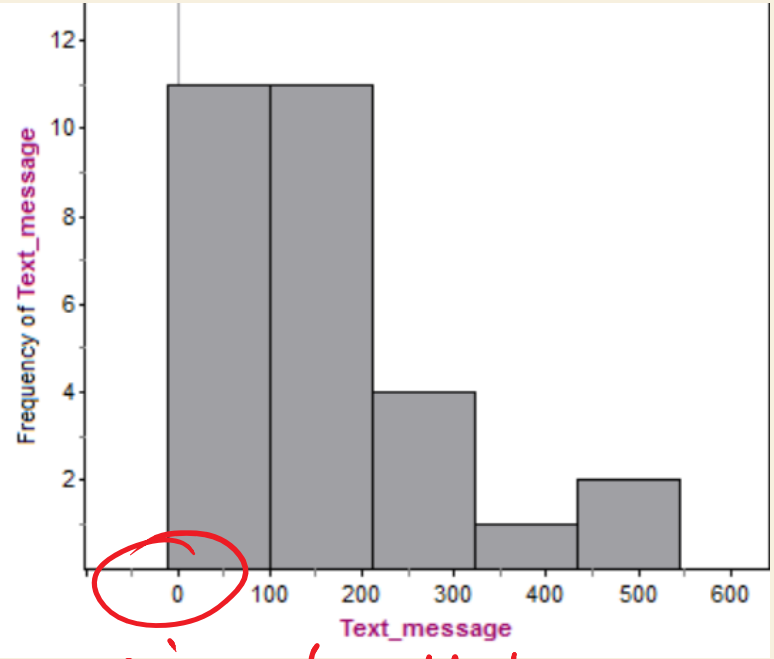
BOX PLOT

- The distribution of shoes owned is highly skewed to the right due to 1 mild and 1 extreme outlier. Additionally, note the fewest number of shoes owned is 5.
- $IQR = Q3 - Q1 = 15 - 6 = 9$
- Mild Outliers:
- $Q1 - 1.5IQR = 6 - 1.5(9) = -7.5$
- $Q3 + 1.5IQR = 15 + 1.5(9) = 28.5$
- Extreme Outliers:
- $Q3 + 3IQR = 15 + 3(9) = 42$



HISTOGRAM

Number of Text Messages on Your Phone



- The distribution is skewed to the right due to a few students having well over 200 text messages. The median was 102 text messages and the IQR was 203.
- Additionally, there was one outlier at 975 which has been removed from the data set.

mild or extreme?

min should line up on 0. Looks like −10