

Light Bulb Longevity

Suppose that you work in advertising for a light bulb company where several light bulbs were randomly selected and tested for longevity. Testers recorded the number of hours that the bulbs burned and made the plot below.

Company A

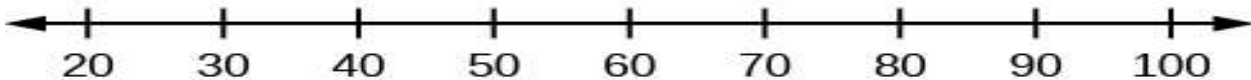
```

2 | 7 9
3 | 2 3 9
4 | 5 6
5 | 7 8 9
6 | 1 5 8 9
7 | 3 4 7 9
8 | 3 5 6 7 8 9 9
9 | 2 6 7 8 9
    
```

- Fill in the chart below with the desired descriptive statistics for your set of data (some have been provided for).

Low	Q1	Median	Q3	Max
# of Tests	Mean	Std. Dev.	IQR	Range
	69.33	22.5		

- Using the information you found above draw a box-and-whisker plot on the grid below.



- Now using 1-2 of the descriptive statistics from above, make a sales pitch to consumers as to why they should purchase your light bulb.

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Company B

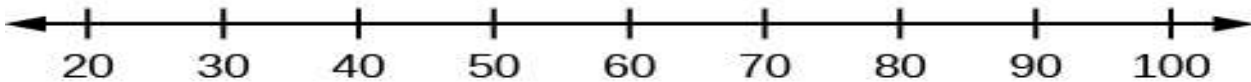
```

5| 4 7 8
6| 0 0 0 2 2 4 5 5 5 6 8 8 9
7| 1 1 2 3 4 5 5 5 6 6 7
8| 2 9
9| 1
    
```

- Fill in the chart below with the desired descriptive statistics for your set of data (some have been provided for).

Low	Q1	Median	Q3	Max
# of Tests	Mean	Std. Dev.	IQR	Range
	69.33	8.9		

- Using the information you found above draw a box-and-whisker plot on the grid below.



- Now using 1-2 of the descriptive statistics from above, make a sales pitch to consumers as to why they should purchase your light bulb.

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Company C

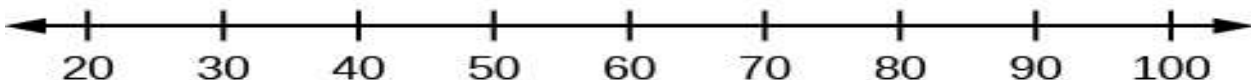
```

3| 7
4| 6
5| 1 5 8 9 9
6| 0 1 2 2 3 3 5 5 8
7| 0 0 2 2
8| 0 3 4 4 5 5 6 7 9
9| 2 3
    
```

- Fill in the chart below with the desired descriptive statistics for your set of data (some have been provided for).

Low	Q1	Median	Q3	Max
# of Tests	Mean	Std. Dev.	IQR	Range
	69.87	14.3		

- Using the information you found above draw a box-and-whisker plot on the grid below.



- Now using 1-2 of the descriptive statistics from above, make a sales pitch to consumers as to why they should purchase your light bulb.