

Activity 4 – Interpreting Visualized Data

Please print this paper and keep it for reference purposes. It will be signed by the professor in charge to mark its completion and record.

Group Name: Quadcore

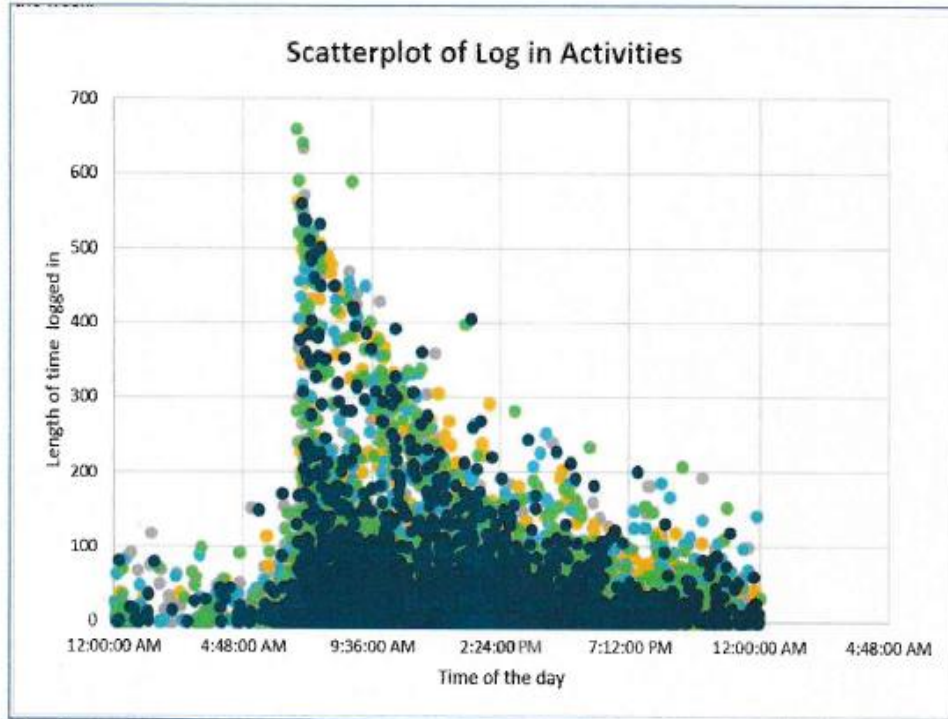
Date: _____

Group Members:

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Angelo Solivas	John Kevin De Jesus

Analyze the following graphs and scatterplots and answer the questions that follow:

The scatterplot below shows the log in activities of users on a certain web page from 2018 to 2019, for each day of the week.



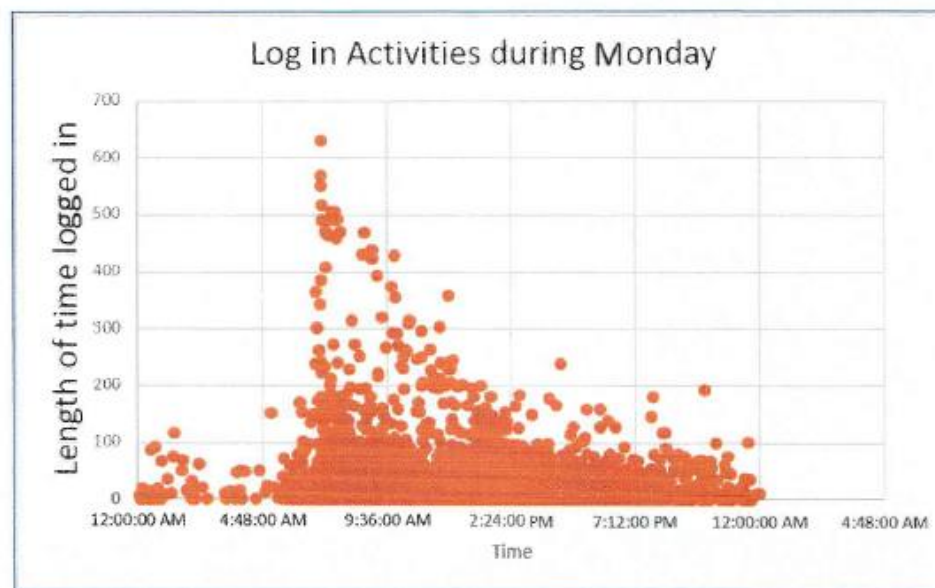
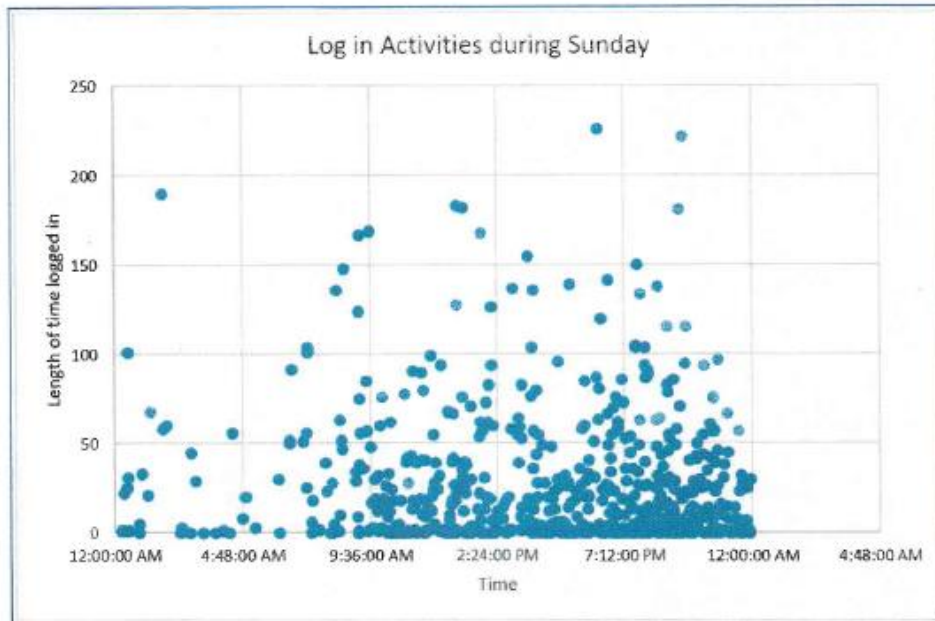
Questions:

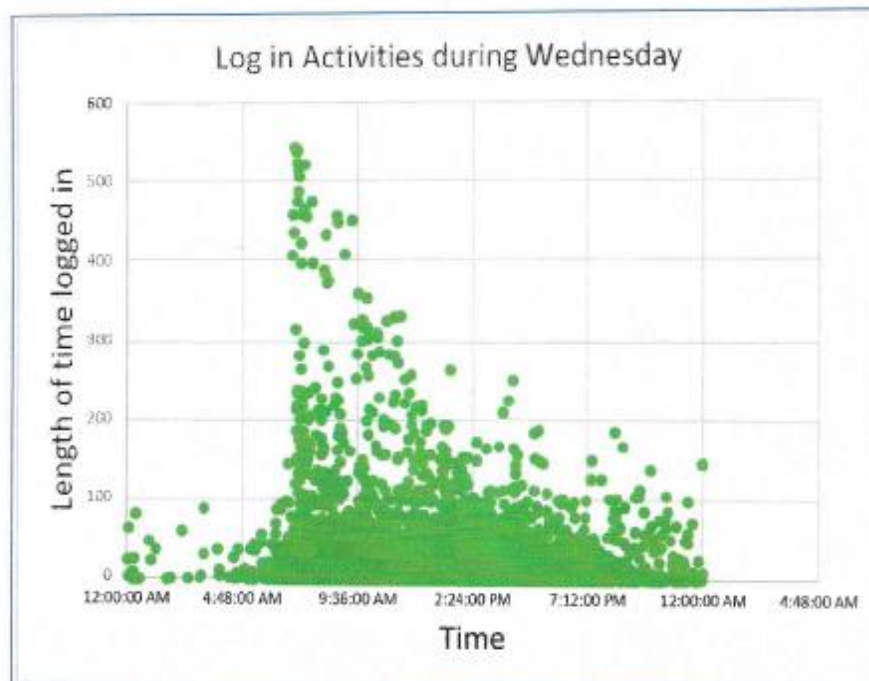
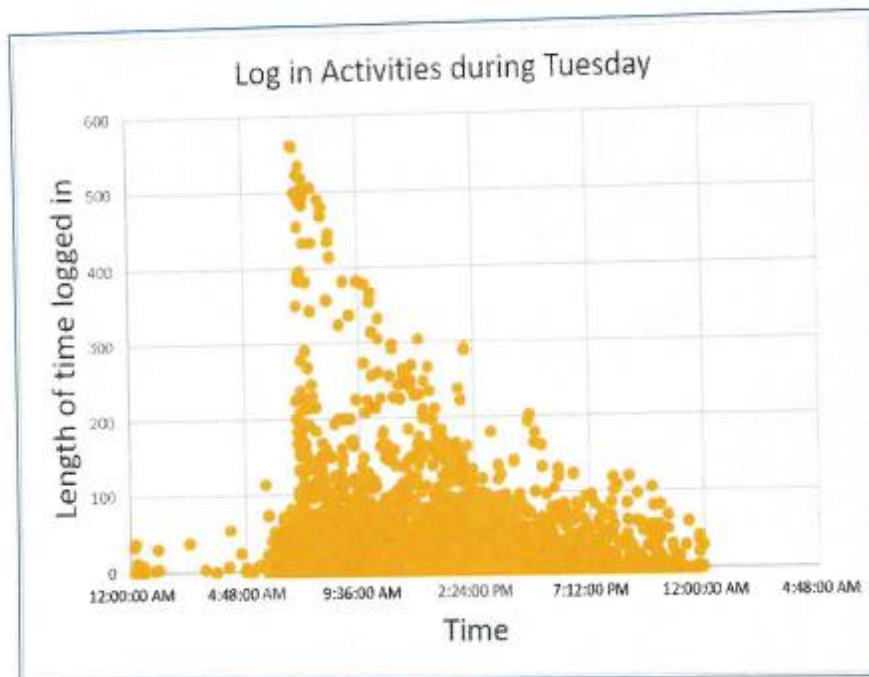
1. What are the two dimensions being plotted? Length of time used and specific time of the day
2. What are the Significant observations that can be drawn from the scatterplot?

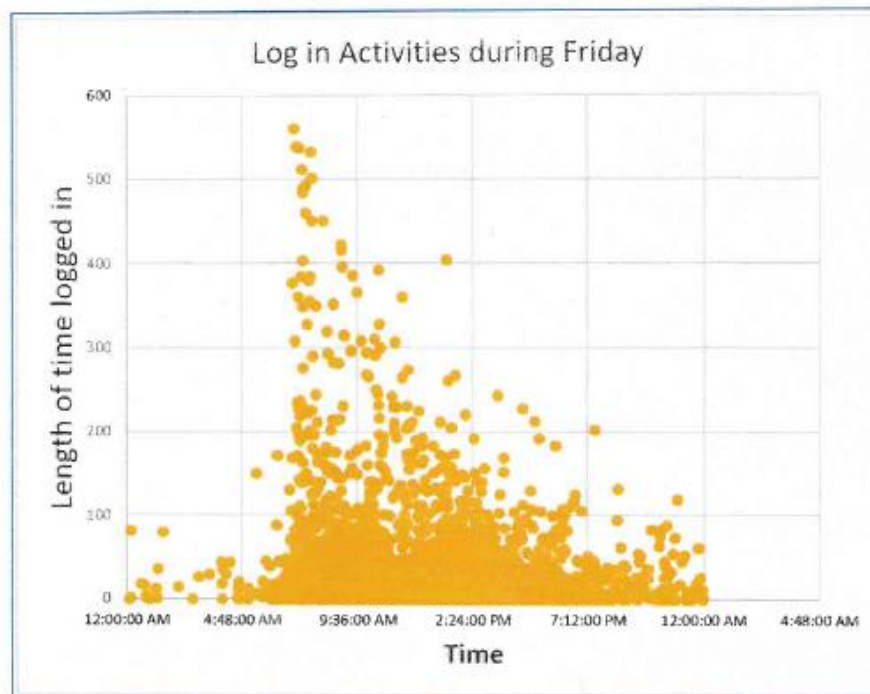
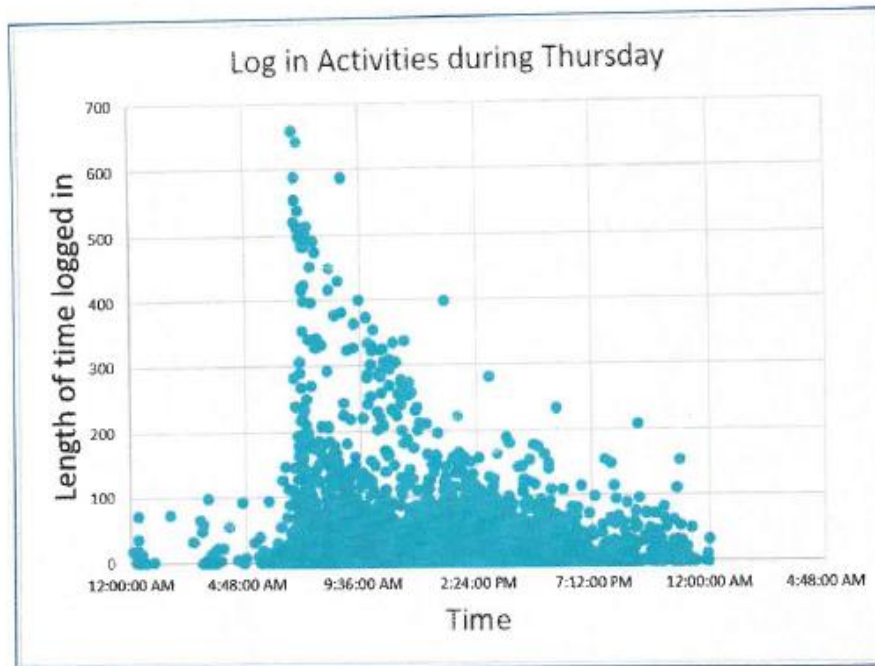
Most of the people logon spent at most 200 hours ranging from 4:48 AM up 12:00 AM of the other day.

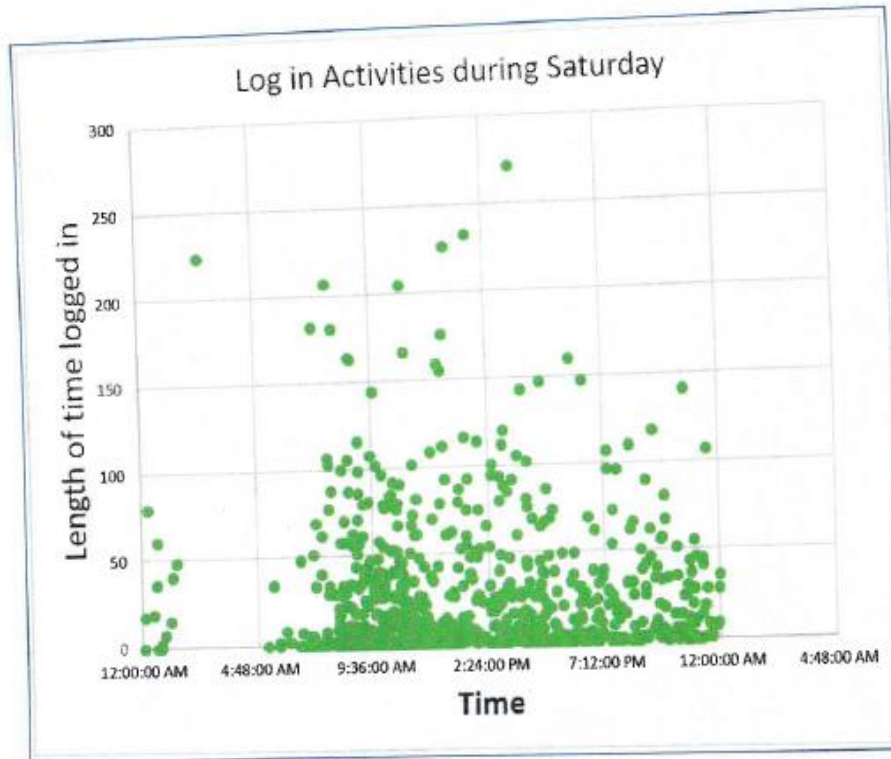
3. What values can be considered as outliers? Values exceeding 550 hours spent can be considered

Deriving from the first scatterplot, what follows are each of the days of the week's scatterplot.









Answer the following based on the week day scatterplots

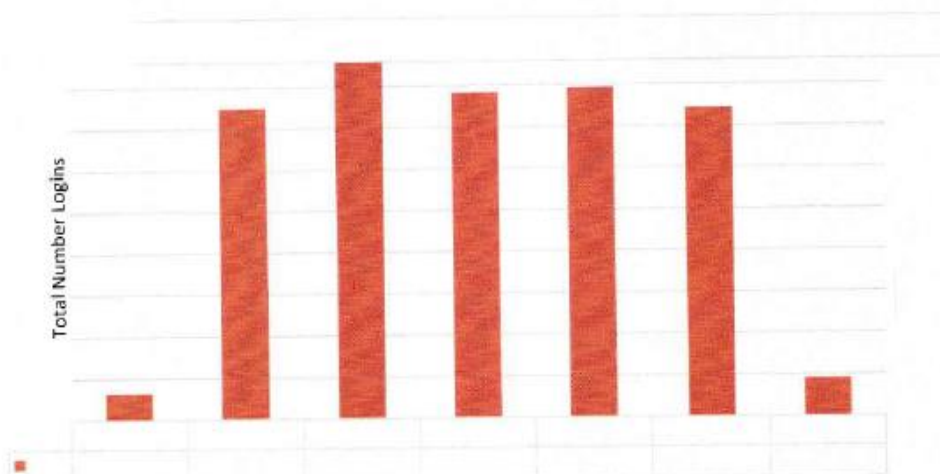
Day	Longest time Logged in	Time of the day
Sunday	225 hours	7:12 PM
Monday	625 hours	6:00 AM
Tuesday	575 hours	6:30 AM
Wednesday	550 hours	6:30 AM
Thursday	650 hours	7:00 AM
Friday	550 hours	7:30 AM
Saturday	265 hours	5:00 PM

What are some interesting observations that can be derived from the scatterplot?

The longest time logged in was in Thursday.

Saturday and Sunday has both short time of login.

The histogram below shows the number of logins per day for the year 2018-2019.



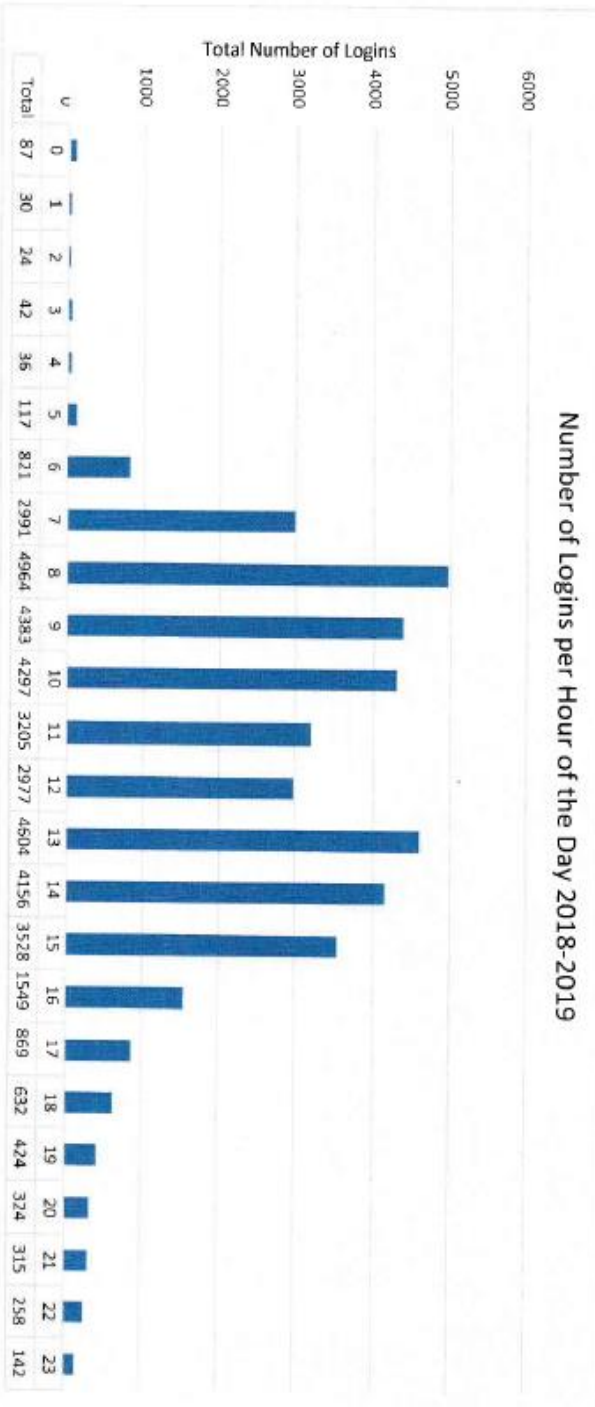
Answer the following data descriptions:

Descriptors	Values	Descriptors	Values
Mean	5825	Standard Deviation	3476.1477720795
Median	7479	Variance	12083603.333333
Mode	8585		

Based on the descriptors, answer the following:

- Is the data spread or compacted? They are spread
- Can the data be considered normal? Yes
- What else can you observe or conclude in the data given?

The histogram shows the total number of logins per hour of the day in 24 hours.



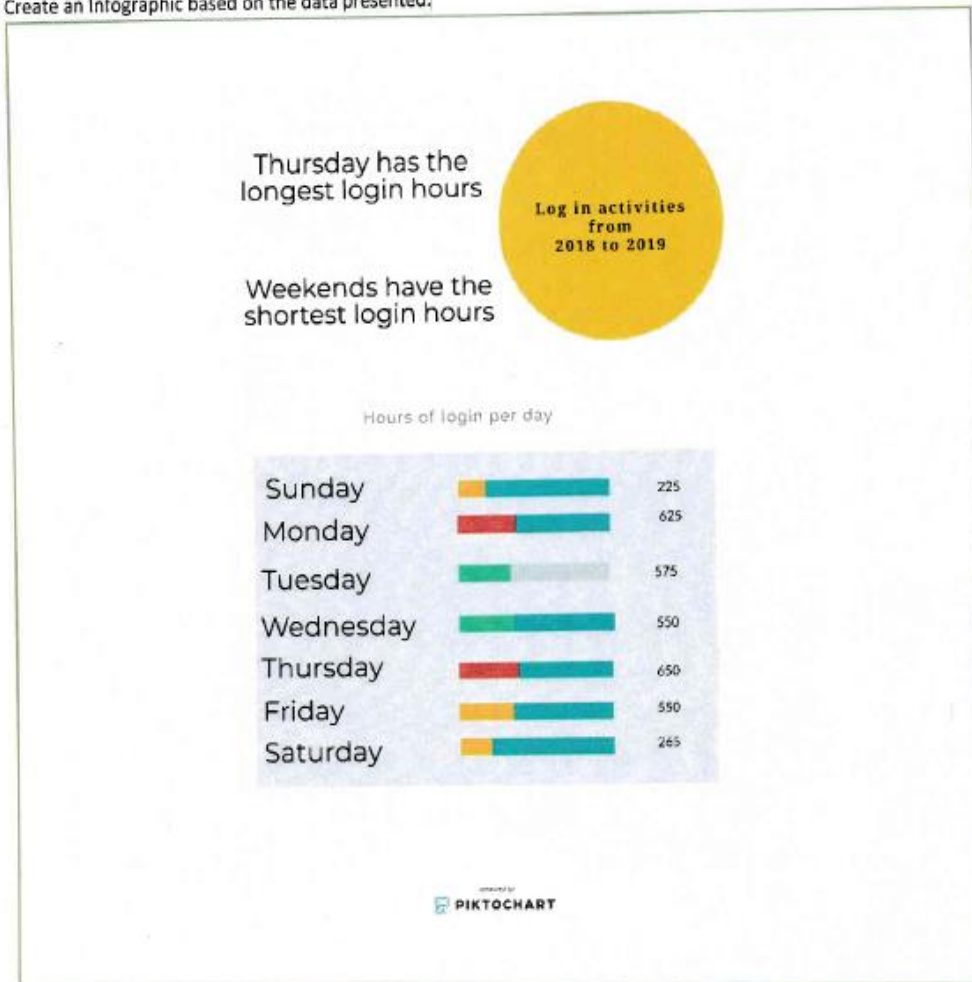
Answer the following data descriptions:

Descriptors	Values	Descriptors	Values	Descriptors	Values
Mean	1698.958333	Mode	4964	Standard Deviation	1826.8797937459
Median	726.5			Variance	3337489.7807971

Based on the descriptors, answer the following:

- Is the data spread or compacted? They are compacted _____
- Can the data be considered normal? Yes _____
- What else can you observe or conclude in the data given? _____

Create an Infographic based on the data presented.



Short narrative about the infographics:

The infographic is based on the observations from the data, shown above.

It shows the the longest and shortest log in time, and their respective value of hours.
