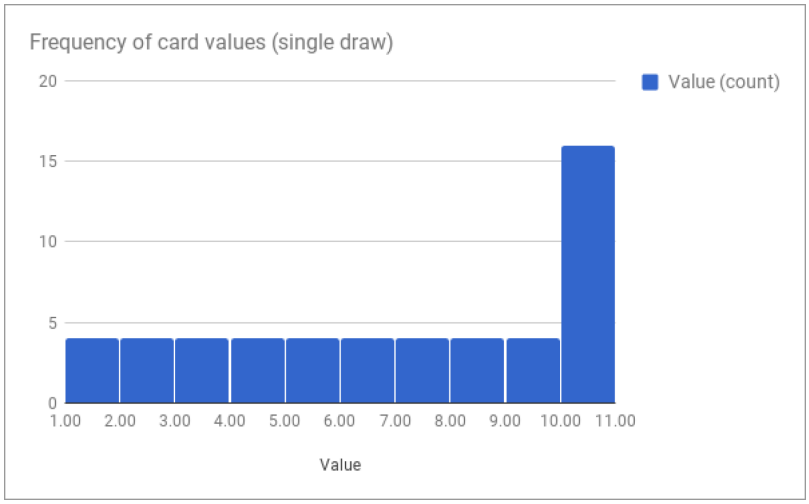
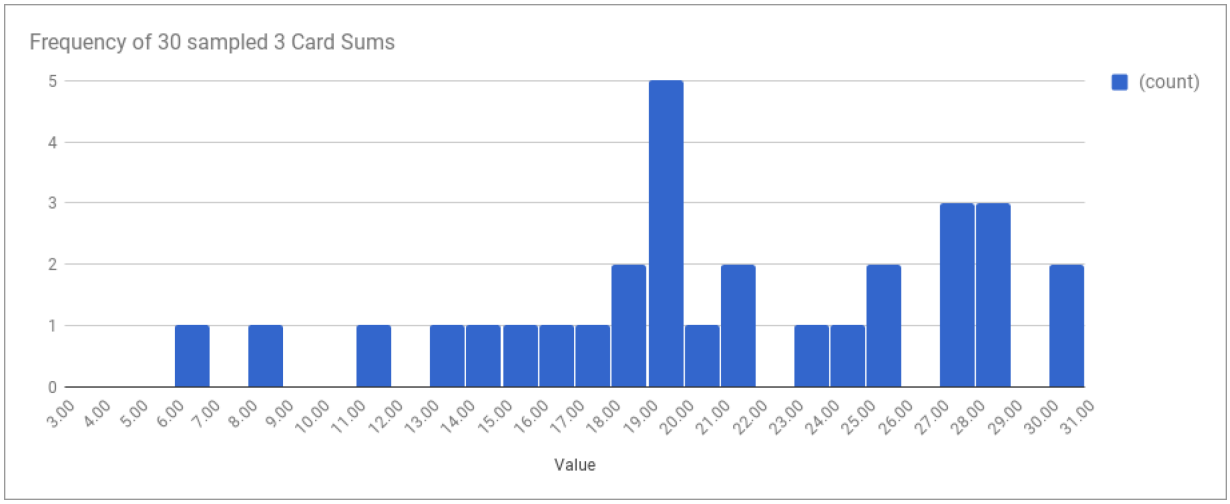
Project: Compute Statistics from Card Draws



Mean	Median	Standard Deviation
6.538461538	7	3.152907928



Mean	Median	Mode	Average Deviation	Standard Deviation	Variance	Interquartile range
20.5	19.5	19	5.133333333	6.372083511	40.60344828	10

The single draw distribution is a left-tailed distribution while the 3 card sums is more similar to a central distribution.
Increasing the sequence of cards results in a distribution which will eventually approximate to a Normal Distribution, as the Central Limit Theorem states.

Approximating to a normal distribution I can use some of its properties to get useful information
Q: Within what range will you expect approximately 90% of your draw values to fall?
A: Using a z-table I find a value z=1.28, that corresponds to a value 28.66. That means that 90% of my daws should be less or equal to 29
Q: What is the approximate probability that you will get a draw value of at least 20?
A: 20 corresponds to a z value of about -0.08. Looking at a z-table I find that the probability is about 0.53