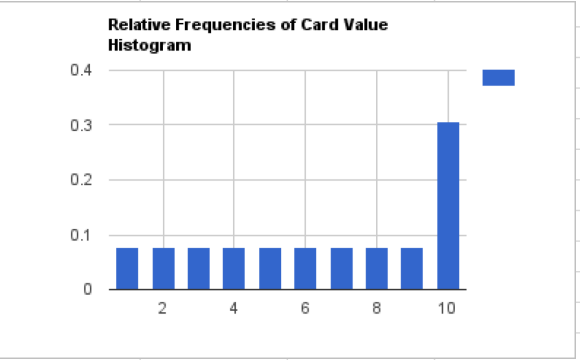
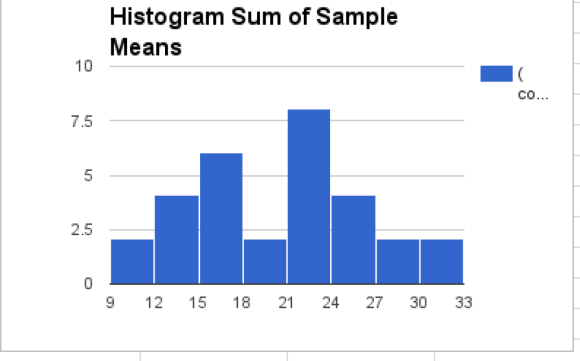


Final Project-Intro to Descriptive Statistics(Udacity)

4	1	0.07692307692	10	10 [1]	10 [2]	30	104.04	10	 <p>Relative Frequencies of Card Value Histogram</p> <p>The histogram shows the relative frequencies of card values from 2 to 10. The x-axis represents card values (2, 4, 6, 8, 10) and the y-axis represents relative frequencies (0 to 0.4). The distribution is roughly uniform for values 2-9, with a slight peak at 10.</p>
4	2	0.07692307692	2	4	10 [3]	16	14.44	10	
4	3	0.07692307692	7	6	10 [4]	23	10.24	12	
4	4	0.07692307692	5	2	3	10	96.04	13	
4	5	0.07692307692	1	10	4	15	23.04	13	
4	6	0.07692307692	5	2	10 [5]	17	7.84	14	
4	7	0.07692307692	10 [6]	1	10	21	1.44	15	
4	8	0.07692307692	3	3	6	12	60.84	15	
4	9	0.07692307692	8	9	3	20	0.04	15	
16	10	0.3076923077	8	1	4	13	46.24	16	
total	total		10 [7]	2	9	21	1.44	17	 <p>Histogram Sum of Sample Means</p> <p>The histogram shows the distribution of sample means for sums of three cards. The x-axis represents the sum of three cards (9, 12, 15, 18, 21, 24, 27, 30, 33) and the y-axis represents frequency (0 to 10). The distribution is roughly bell-shaped, centered around 21.</p>
52	1		7	8	10 [8]	25	27.04	17	
Frequencies of card values above	Card Values above	Relative Frequencies of card values above	10 [9]	4	1	15	23.04	18	
			9	10	10 [10]	29	84.64	20	
mean of sample sums			5	10 [11]	3	18	3.24	21	
19.8 [12]			10	5	10	25	27.04	21	
variance			9	4	10	23	10.24	21	
32.29333333			10	1	10	21	1.44	21	
standard error			5	10 [13]	6	21	1.44	21	
5.682722352 [14]			1	10	4	15	23.04	23	
median(Q2)			5	10 [15]	6	21	1.44	23	<p>Using z-table we found that 90.1 % of data lies within 1.65 standard deviation from mean. So applying that here, around 90% of our draw values are going to fall between 10 to 29.</p> <p>As 19.8 is the mean of the above sample and 21 is the median, that means we have a probability of 0.5 approximately to get a draw value of atleast 20.</p> <p>Using z-table again, we see that around 68% of values will fall between 14 to 26.</p>
21 [16]			9	10 [17]	9	28	67.24	23	
median(Q1)			1	10 [18]	2	13	46.24	24	
15			4	2	4	10	96.04	24	
medain(Q3)			3	5	9	17	7.84	25	
24			9	10	4	23	10.24	25	
IQR = Q3 - Q1			10 [19]	9	5	24	17.64	28	
9 [20]			4	10 [21]	10 [22]	24	17.64	29	
Range			7	6	1	14	33.64	30	
20			10	10 [23]	10 [24]	30	104.04	30	
			Sample of size three (n=3) above		Sum of the three cards in each sample above	(x-xbar)^2	Same as G column, but in sorted order for median cacluation above		

Notes

[1] K

[2] K

[3] Q

[4] J

[5] J

[6] Q

[7] Q

[8] K

[9] Q

[10] J

[11] K

[12] measure of central tendency

[13] J

[14] measure of variability

[15] K

[16] measure of central tendency

[17] Q

[18] Q

[19] J

[20] measure of variability

no outliers here, the distribution is quite normal

Notes

[21] Q

[22] K

[23] J

[24] K