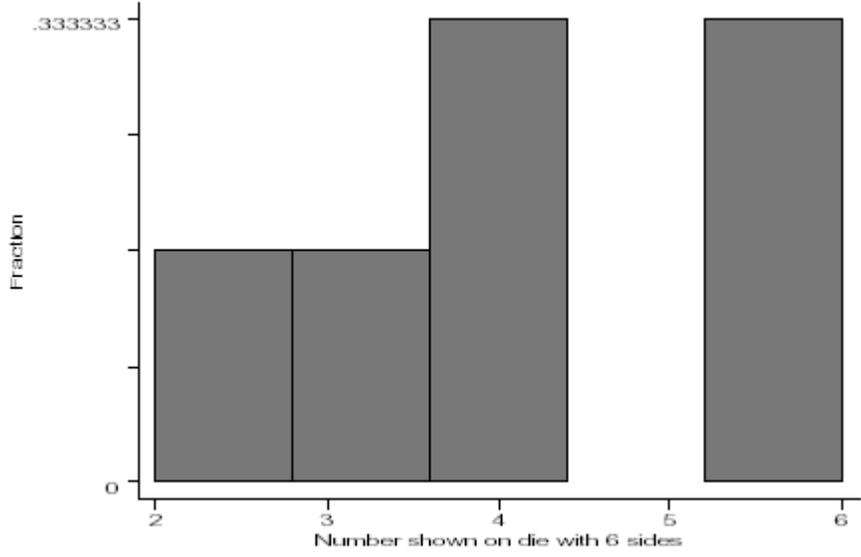


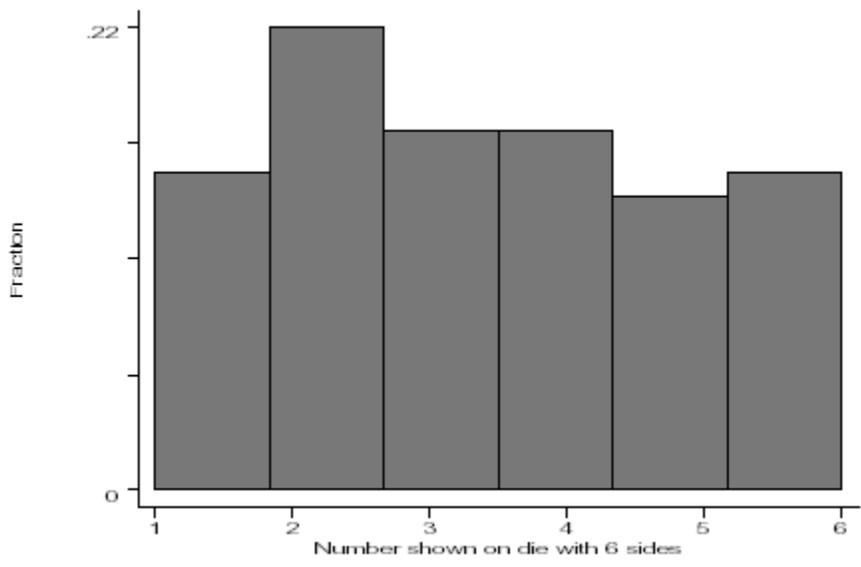
How about a single die, suppose we roll it 6 times, what do you expect to happen?



Number shown on die with 6 sides	Freq.	Percent
2	1	16.67
3	1	16.67
4	2	33.33
6	2	33.33
Total	6	100.00

STAT2™

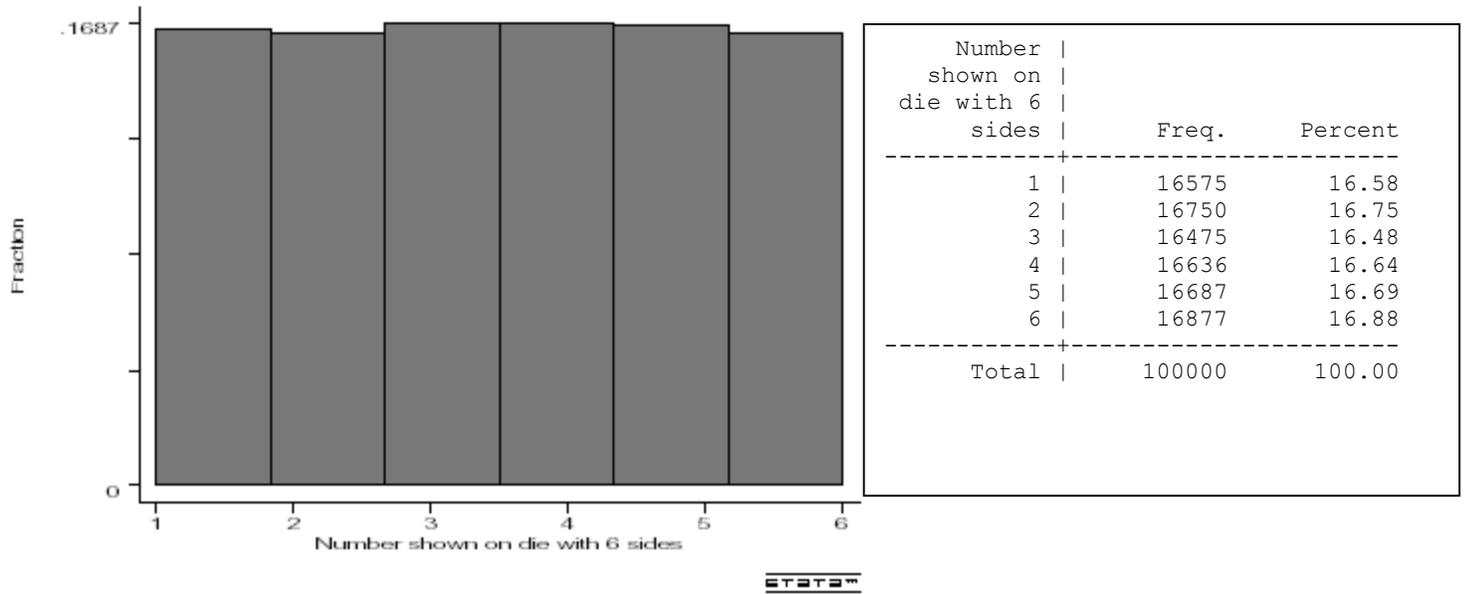
And if we rolled a single die 100 times? What would you expect?



Number shown on die with 6 sides	Freq.	Percent
1	15	15.00
2	22	22.00
3	17	17.00
4	17	17.00
5	14	14.00
6	15	15.00
Total	100	100.00

STAT2™

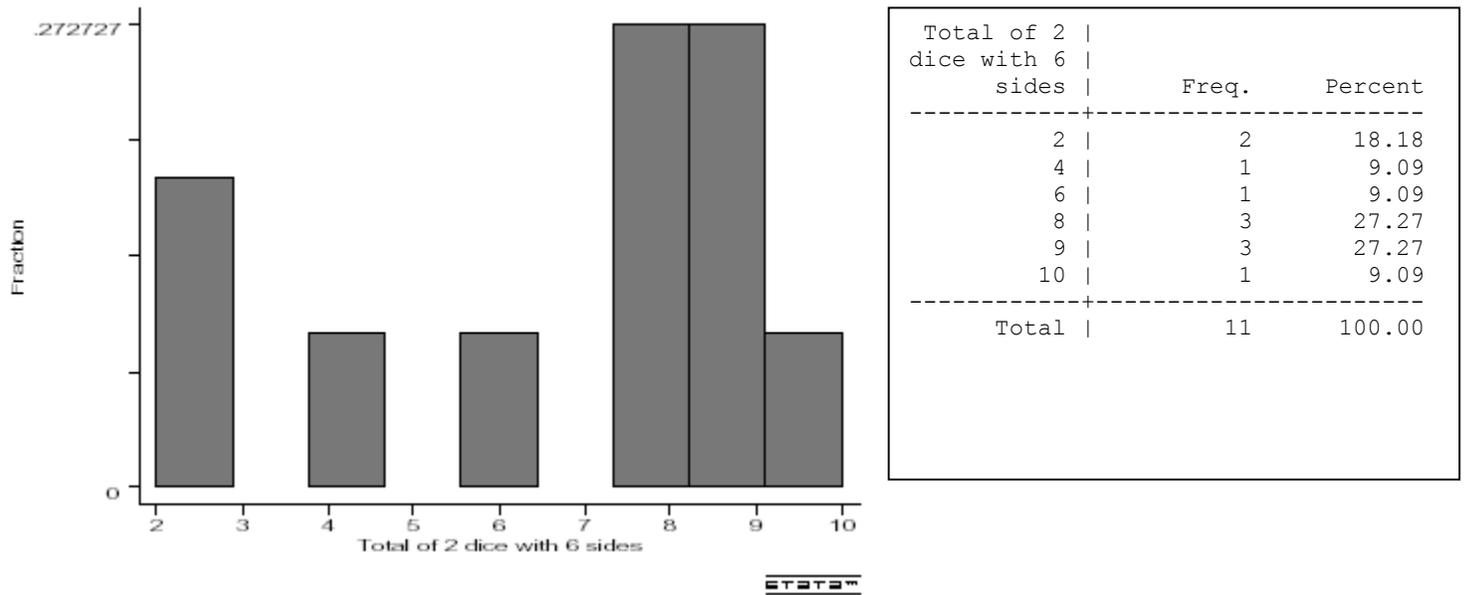
And what do you think happens if we were to roll it 100,000 times? (Guess and then look at the next page)



The game of "craps" in Las Vegas involves rolling 2 die simultaneously. What are the possible outcomes?

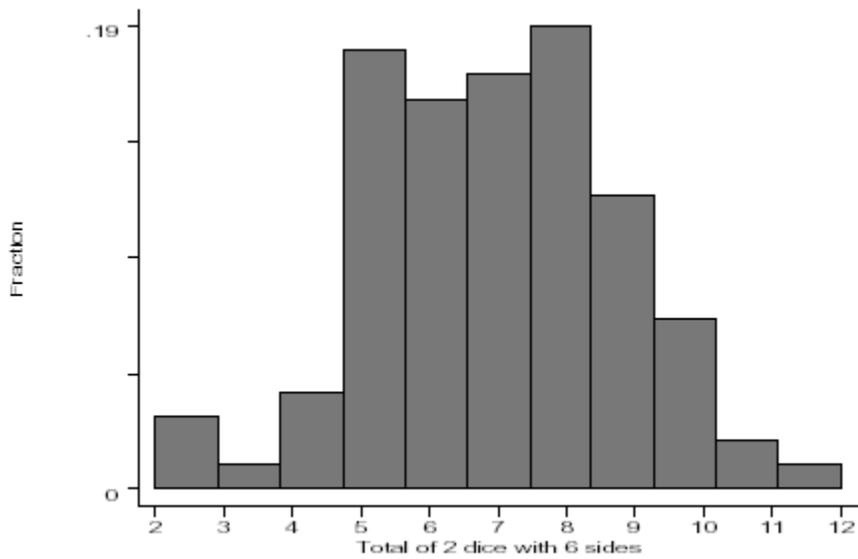
2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

There are 11 possible outcomes. What if I were to roll 2 die 11 times, what would we expect to see?



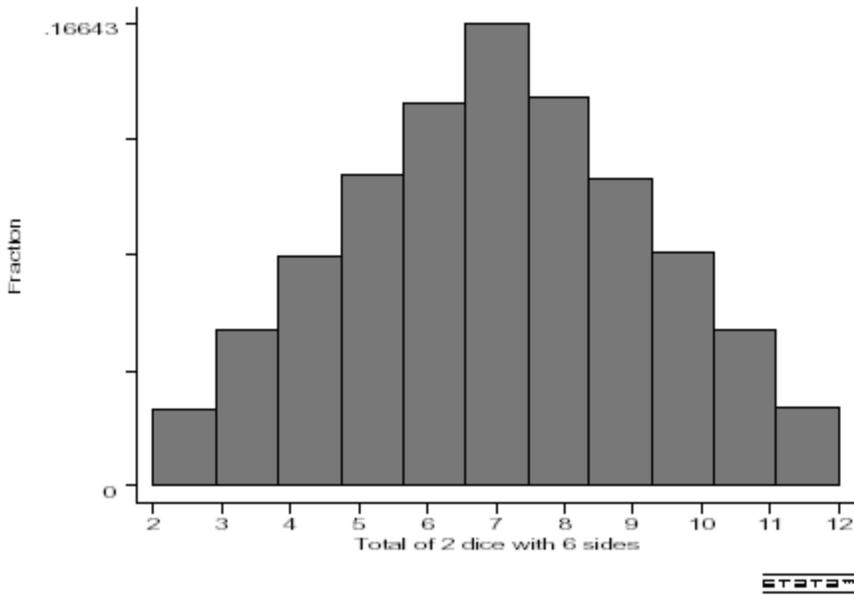
And what if we rolled 100 times? Or 100,000 times (the typical number of rolls in single night in a busy casino in Las Vegas)

100 Rolls of 2 die



Total of 2 dice with 6 sides	Freq.	Percent
2	3	3.00
3	1	1.00
4	4	4.00
5	18	18.00
6	16	16.00
7	17	17.00
8	19	19.00
9	12	12.00
10	7	7.00
11	2	2.00
12	1	1.00
Total	100	100.00

And 100,000 times?



Total of 2 dice with 6 sides	Freq.	Percent
2	2765	2.76
3	5587	5.59
4	8280	8.28
5	11139	11.14
6	13761	13.76
7	16643	16.64
8	13928	13.93
9	11059	11.06
10	8421	8.42
11	5591	5.59
12	2826	2.83
Total	100000	100.00

Take note -- where have you seen something that looks a little bit like this before?