

OSHEASSM

Rolling in Clover

20-Spot

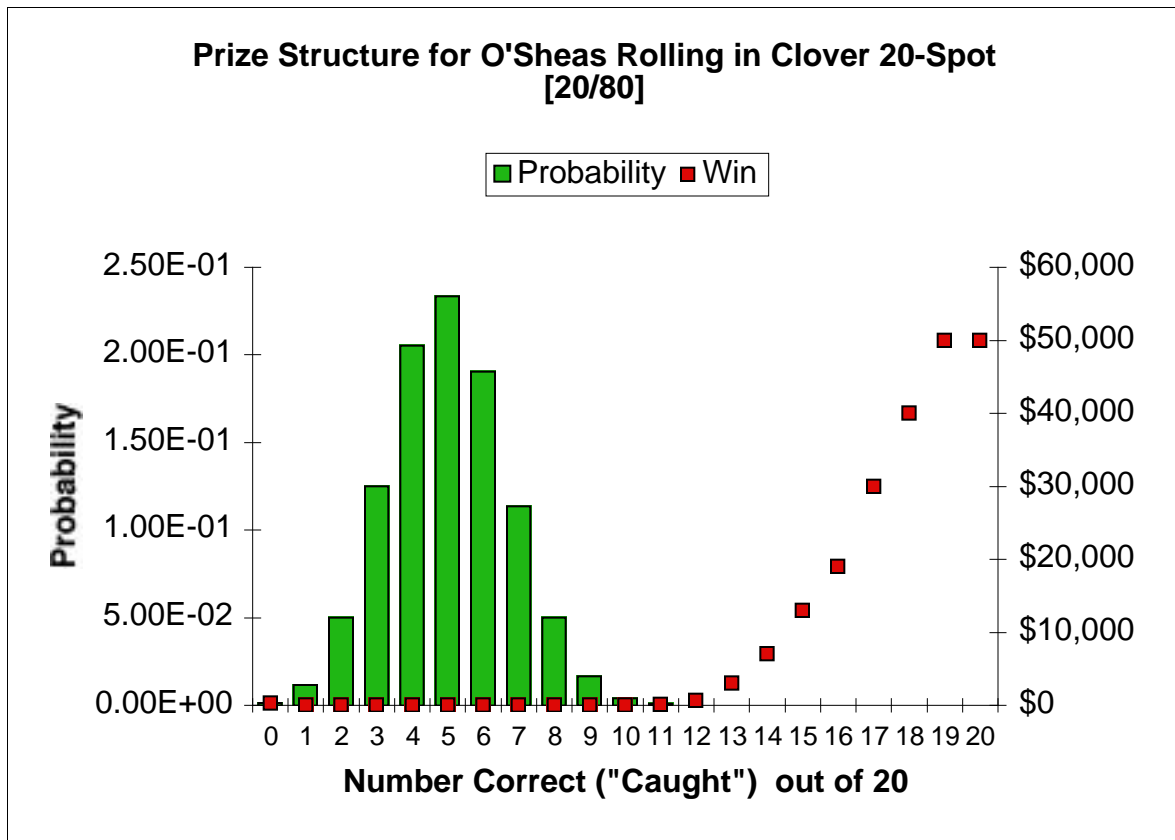


MARK 20 NUMBERS
18 DIFFERENT WAYS TO WIN
\$3.00 Minimum Bet

TICKET MAY BE PLAYED FOR
ANY MULTIPLE OF \$3.00

CATCH	YOU WIN
0 of 20	300.00
1 of 20	6.00
2 of 20 ..	FREE PLAY
3 of 20 ..	FREE PLAY
4 of 20	-0-
5 of 20	-0-
6 of 20	-0-
7 of 20 ..	FREE PLAY
8 of 20	6.00
9 of 20	15.00
10 of 20	30.00
11 of 20	120.00
12 of 20	600.00
13 of 20	3000.00
14 of 20	7000.00
15 of 20	13,000.00
16 of 20	19,000.00
17 of 20	30,000.00
18 of 20	40,000.00
19 of 20	50,000.00
20 of 20	50,000.00

Catch	Probability*	Win	Win x Probability
0	1.19E-03	\$300	\$0.36
1	1.16E-02	\$6	\$0.07
2	4.97E-02	\$3	\$0.15
3	1.25E-01	\$3	\$0.37
4	2.05E-01	\$0	\$0.00
5	2.33E-01	\$0	\$0.00
6	1.90E-01	\$0	\$0.00
7	1.13E-01	\$3	\$0.34
8	4.99E-02	\$6	\$0.30
9	1.63E-02	\$15	\$0.24
10	3.94E-03	\$30	\$0.12
11	7.02E-04	\$120	\$0.08
12	9.12E-05	\$600	\$0.05
13	8.47E-06	\$3,000	\$0.03
14	5.49E-07	\$7,000	\$0.00
15	2.40E-08	\$13,000	\$0.00
16	6.68E-10	\$19,000	\$0.00
17	1.10E-11	\$30,000	\$0.00
18	9.51E-14	\$40,000	\$0.00
19	3.39E-16	\$50,000	\$0.00
20	2.83E-19	\$50,000	\$0.00
1.00E+00			\$2.12



* **HYPERGEOMETRIC DISTRIBUTION**

CHOSEN BY HOUSE?

		YES	NO	
CHOSEN BY PLAYER?	YES	# "Caught"	20 - #	20 Chosen by Player (C_P for short)
	NO	20 - #	40 + #	60 Not Chosen by Player (NC_P for short)
		20	60	80
		Chosen by House (C_H for short)	Not Chosen by House (NC_H for short)	

2 way classification of the 80 numbers

$$\text{Prob}(\# \text{ Caught}) = \frac{\{C_P \text{ choose } \#\} \times \{NC_P \text{ choose } (20-\#)\}}{80 \text{ choose } 20}$$

In EXCEL ... Prob(# Caught) = HYPGEOMDIST(#, C_H, C_P, 80)