

Roulette for a 38 Number Wheel with 1 – 36, 0, 00

		O	OO	
1-18	1st 12	1	2	3
		4	5	6
Even		7	8	9
		10	11	12
Red	2nd 12	13	14	15
		16	17	18
Black		19	20	21
		22	23	24
Odd	3rd 12	25	26	27
		28	29	30
19-36		31	32	33
		34	35	36
		2:1	2:1	2:1

Fair Payoff = True odds against winning with the 38 numbers on the wheel.

Real Payoff = Odds against winning if only 1-36 were on the wheel, with an exception for the Five Number Line.

To compute the casino's average profit per a certain number of bets, use the following formula for *income minus payouts*.

$$\text{CAP} = \# \text{Bets} \times \text{Prob Lose} \times \text{Amt Bet} - \# \text{Bets} \times \text{Prob Win} \times \text{Payoff}.$$

Bet	Prob.	Fair Payoff	Real Payoff
Single Number			
Two Numbers (Split)			
Three Numbers (Street)			
Four Numbers (Square)			
Five Numbers (Line)			
Six Numbers (Line)			
Twelve Numbers (Column or Section)			
Low 1-18 (or High 19-36)			
Even (or Odd)			
Red (or Black)			

Square Bet (4 Numbers)

Prob. Win? Prob. Lose? Odds?	Fair payoff for a \$5 bet?
Real payoff for a \$5 bet?	For 1000 players betting \$5 Avg # Losers Avg # Winners Casino Avg Profit

Single Number Bet

Prob. Win? Prob. Lose? Odds?	Fair payoff for a \$10 bet?
Real payoff for a \$10 bet?	For 500 players betting \$10 Avg # Losers Avg # Winners Casino Avg Profit

Low, High, Even, Odd, Red, or Black

<p>Prob. Win? Prob. Lose?</p> <p style="text-align: center;">Odds?</p>	<p style="text-align: center;">Fair payoff for a \$20 bet?</p>
<p style="text-align: center;">Real payoff for a \$20 bet?</p>	<p style="text-align: center;">For 10000 players betting \$20 Avg # Losers Avg # Winners</p> <p style="text-align: center;">Casino Avg Profit</p>

Six Number Line

<p>Prob. Win? Prob. Lose?</p> <p style="text-align: center;">Odds?</p>	<p style="text-align: center;">Fair payoff for a \$10 bet?</p>
<p style="text-align: center;">Real payoff for a \$10 bet?</p>	<p style="text-align: center;">For 5000 players betting \$10 Avg # Losers Avg # Winners</p> <p style="text-align: center;">Casino Avg Profit</p>