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# Hold'em Odds Handbook

## Drawing Odds

Outs	Chance of hitting at least one of your cards on the turn or river		Chance of hitting one of your cards on the turn		Chance of Getting your cards on the river	
	%	Odds X:1	%	Odds X:1	%	Odds X:1
21	<b>69.94</b>	<b>2.326 favor</b>	44.68	1.238	45.65	1.190
20	<b>67.53</b>	<b>2.080 favor</b>	42.55	1.350	43.48	1.300
19	<b>65.03</b>	<b>1.860 favor</b>	40.43	1.474	41.30	1.421
18	<b>62.44</b>	<b>1.663 favor</b>	38.30	1.611	39.13	1.556
17	<b>59.76</b>	<b>1.485 favor</b>	36.17	1.765	36.96	1.706
16	<b>56.98</b>	<b>1.325 favor</b>	34.04	1.938	34.78	1.875
15	<b>54.12</b>	<b>1.179 favor</b>	31.92	2.133	32.61	2.067
14	<b>51.16</b>	<b>1.047 favor</b>	29.79	2.357	30.44	2.286
13	48.10	1.079	27.66	2.615	28.26	2.538
12	44.96	1.224	25.53	2.917	26.09	2.833
11	41.72	1.397	23.40	3.273	23.91	3.182
10	38.39	1.605	21.28	3.700	21.74	3.600
9	34.97	1.860	19.15	4.222	19.57	4.111
8	31.45	2.179	17.02	4.875	17.39	4.750
7	27.85	2.591	14.89	5.714	15.22	5.571
6	24.14	3.142	12.77	6.833	13.04	6.667
5	20.35	3.914	10.64	8.400	10.87	8.200
4	16.47	5.073	8.51	10.750	8.67	10.500
3	12.49	7.007	6.38	14.667	6.52	14.333
2	8.42	10.879	4.26	22.500	4.35	22.000
1	4.26	22.500	2.13	46.000	2.18	45.000

## Starting Hands

	%	Odds
Pocket Pair	5.88	16:1
AA (or XX)	0.45	220:1
AKs	0.30	330:1
AKo + AKs	1.21	82:1
Suited Cards	23.53	3.25:1
Ax	15.08	5.63

**How often you are expected to play your hands.**

### Limit Hold'em Starting Hands (Sklansky)

Group		Odds of getting this group or better
1	AA, KK, QQ, JJ, AKs	46:1
2	TT, AQs, AJs, KQs, AKo	21.9:1
3	99, JTs, QJs, KJs, ATs, AQo	13.4:1
4	T9s, KQo, 88, QTs, 98s, J9s, AJo, KTs	8.34:1
5	77, 87s, Q9s, T8s, KJo, QJo, JTo, 76s, 97s, Axs, 65s	4.62:1
6	66, ATo, 55, 86s, KTo, QTo, 54s, K9s, J8s, 75s	3.36:1
7	44, J9o, 64s, T9o, 53s, 33, 98o, 43s, 22, Kxs, T7s, Q8s	2.27:1
8	87o, A9o, Q9o, 76o, 42s, 32s, 96s, 85s, J8o, J7s, 65o, 54o, 74s, K9o, T8o	1.46:1

### No Limit Hold'em Starting Hands (Lederer)

Group		Odds of getting this group or better
A	AA, KK, AKs	82:1
B	QQ, AKo, JJ, TT	28:1
C	AQs, 99, AQo, 88	16.9:1
D	77, KQs, 66, ATs, 55, AJo	10.8:1
E	KQo, 44, KJs, 33, 22, ATo, QJs	7.19:1

## Preflop to flop

PreFlop	Odds
Poekt Pair to Flop Set or Better	7.5:1
Suited Cards to Flop Flush	118:1
Suited Cards to Flop 4 Flush	7.48:1
45-JT to Flop Straight	76:1

**% Probability of having the best hand by number of players in the game. Sorted by two players.**

P:	2	3	3	5	6	7	8	9	10
AA	85.3	73.4	63.9	55.9	49.2	43.6	38.8	34.7	31.1
KK	82.4	68.9	58.2	49.8	43.0	37.5	32.9	29.2	26.1
QQ	79.9	64.9	53.5	44.7	37.9	32.5	28.3	24.9	22.2
JJ	77.5	61.2	49.2	40.3	33.6	28.5	24.6	21.6	19.3
TT	75.1	57.7	45.2	36.4	30.0	25.3	21.8	19.2	17.2
99	72.1	53.5	41.1	32.6	26.6	22.4	19.4	17.2	15.6
88	69.1	49.9	37.5	29.4	24.0	20.3	17.7	15.8	14.4
Aks	67.0	50.7	41.4	35.4	31.1	27.7	25.0	22.7	20.7
77	66.2	46.4	34.4	26.8	21.9	18.6	16.4	14.8	13.7
AQs	66.1	49.4	39.9	33.7	29.4	26.0	23.3	21.1	19.3
AJs	65.4	48.2	38.5	32.2	27.8	24.5	22.0	19.9	18.1
AKo	65.4	48.2	38.6	32.4	27.9	24.4	21.6	19.2	17.2
ATs	64.7	47.1	37.2	31.0	26.7	23.5	21.0	18.9	17.3
AQo	64.5	46.8	36.9	30.4	25.9	22.5	19.7	17.5	15.5
AJo	63.6	45.6	35.4	28.9	24.4	21.0	18.3	16.1	14.3
KQs	63.4	47.1	38.2	32.5	28.3	25.1	22.5	20.4	18.6
66	63.3	43.2	31.5	24.5	20.1	17.3	15.4	14.0	13.1
A9s	63.0	44.8	34.6	28.4	24.2	21.1	18.8	16.9	15.4
ATo	62.9	44.4	34.1	27.6	23.1	19.8	17.2	15.1	13.4
KJs	62.6	45.9	36.8	31.1	26.9	23.8	21.3	19.3	17.6
A8s	62.1	43.7	33.6	27.4	23.3	20.3	18.0	16.2	14.8
KTs	61.9	44.9	35.7	29.9	25.8	22.8	20.4	18.5	16.9
KQo	61.4	44.4	35.2	29.3	25.1	21.8	19.1	16.9	15.1
A7s	61.1	42.6	32.6	26.5	22.5	19.6	17.4	15.7	14.3
A9o	60.9	41.8	31.2	24.7	20.3	17.1	14.7	12.8	11.2
KJo	60.6	43.1	33.6	27.6	23.5	20.2	17.7	15.6	13.9
QJs	60.3	44.1	35.6	30.1	26.1	23.0	20.7	18.7	17.1
55	60.3	40.1	28.8	22.4	18.5	16.0	14.4	13.2	12.3
A8o	60.1	40.8	30.1	23.7	19.4	16.2	13.9	12.0	10.6

P:	2	3	3	5	6	7	8	9	10
22	50.3	30.7	22.0	17.8	15.5	14.2	13.3	12.5	12.0
K2o	50.2	30.9	21.8	16.9	13.7	11.5	9.8	8.6	7.6
Q5o	50.2	31.3	22.3	17.3	13.9	11.6	9.8	8.5	7.4
J5s	50.0	32.8	24.7	20.0	17.0	14.7	13.1	11.8	10.8
T8o	50.0	33.6	25.4	20.4	16.9	14.4	12.5	11.0	9.9
Q2s	49.9	32.2	24.0	19.5	16.6	14.6	13.1	11.9	10.9
J7o	49.9	32.1	23.5	18.3	14.9	12.4	10.6	9.2	8.1
97s	49.5	34.2	26.8	22.1	18.9	16.6	14.9	13.6	12.5
T6s	49.2	32.8	25.1	20.5	17.4	15.2	13.6	12.3	11.2
J4s	49.0	31.8	24.0	19.4	16.4	14.3	12.8	11.5	10.6
Q4o	49.0	30.2	21.4	16.4	13.3	11.0	9.4	8.1	7.1
98o	48.4	32.9	25.1	20.1	16.6	14.2	12.3	10.9	9.9
87s	48.2	33.9	26.6	22.0	18.9	16.7	15.0	13.7	12.7
T7o	48.2	31.4	23.4	18.4	15.1	12.8	11.0	9.7	8.6
J3s	47.9	30.9	23.2	18.8	16.0	14.0	12.5	11.3	10.4
J6o	47.9	29.8	21.4	16.5	13.2	11.0	9.3	8.0	7.0
Q3o	47.9	29.2	20.7	15.9	12.8	10.7	9.1	7.9	6.9
96s	47.7	32.3	24.9	20.4	17.4	15.3	13.7	12.4	11.4
T5s	47.2	30.8	23.3	18.9	16.0	13.9	12.4	11.2	10.2
J2s	47.1	30.1	22.6	18.3	15.6	13.7	12.2	11.1	10.2
J5o	47.1	29.1	20.7	15.9	12.8	10.6	8.9	7.7	6.7
Q2o	47.0	28.4	19.9	15.3	12.3	10.3	8.8	7.7	6.8
97o	46.7	30.9	23.1	18.4	15.1	12.8	11.1	9.8	8.8
86s	46.5	32.0	25.0	20.6	17.6	15.6	14.1	12.9	11.9
T4s	46.4	30.1	22.7	18.4	15.6	13.6	12.1	11.0	10.0
T6o	46.3	29.2	21.2	16.5	13.4	11.2	9.5	8.3	7.3
J4o	46.1	28.1	19.9	15.3	12.3	10.2	8.6	7.5	6.5
95s	45.9	30.4	23.2	18.8	16.0	13.9	12.4	11.3	10.3
76s	45.7	32.0	25.1	20.8	18.0	15.9	14.4	13.2	12.3

K9s	60.0	42.4	32.9	27.2	23.2	20.3	18.1	16.3	14.8
A6s	60.0	41.3	31.4	25.6	21.7	19.0	16.9	15.3	14.0
A5s	59.9	41.4	31.8	26.0	22.2	19.6	17.5	15.9	14.5
KTo	59.9	42.0	32.5	26.5	22.3	19.2	16.7	14.7	13.1
QTs	59.5	43.1	34.6	29.1	25.2	22.3	19.9	18.1	16.6
A7o	59.1	39.4	28.9	22.6	18.4	15.4	13.2	11.4	10.1
A4s	58.9	40.4	30.9	25.3	21.6	19.0	17.0	15.5	14.2
K8s	58.5	40.2	30.8	25.1	21.3	18.6	16.5	14.8	13.5
QJo	58.2	41.4	32.6	26.9	22.9	19.8	17.3	15.3	13.7
A3s	58.0	39.4	30.0	24.6	21.0	18.5	16.6	15.1	13.9
K9o	58.0	39.5	29.6	23.6	19.5	16.5	14.1	12.3	10.8
Q9s	57.9	40.7	31.9	26.4	22.5	19.7	17.6	15.9	14.5
K7s	57.8	39.4	30.1	24.5	20.8	18.1	16.0	14.5	13.2
A6o	57.8	38.0	27.6	21.5	17.5	14.7	12.6	10.9	9.6
A5o	57.7	38.2	27.9	22.0	18.0	15.2	13.1	11.5	10.1
JTs	57.5	41.9	33.8	28.5	24.7	21.9	19.7	17.9	16.5
QTo	57.4	40.2	31.3	25.7	21.6	18.6	16.3	14.4	12.9
A2s	57.0	38.5	29.2	23.9	20.4	18.0	16.1	14.6	13.4
44	57.0	36.8	26.3	20.6	17.3	15.2	13.9	12.9	12.1
K6s	56.8	38.4	29.1	23.7	20.1	17.5	15.6	14.0	12.8
A4o	56.4	36.9	26.9	21.1	17.3	14.7	12.6	11.0	9.8
K8o	56.3	37.2	27.3	21.4	17.4	14.6	12.5	10.8	9.4
Q8s	56.2	38.6	29.7	24.4	20.7	18.0	16.0	14.4	13.2
J9s	55.8	39.6	31.3	26.1	22.4	19.7	17.6	15.9	14.6
K5s	55.8	37.4	28.2	23.0	19.5	17.0	15.2	13.7	12.5
A3o	55.6	35.9	26.1	20.4	16.7	14.2	12.2	10.7	9.5
Q9o	55.5	37.6	28.5	22.9	19.0	16.1	13.8	12.1	10.7
JTo	55.4	39.0	30.7	25.3	21.5	18.6	16.3	14.5	13.1
K7o	55.4	36.1	26.3	20.5	16.7	13.9	11.8	10.2	9.0
K4s	54.7	36.4	27.4	22.3	19.0	16.6	14.8	13.4	12.3
A2o	54.6	35.0	25.2	19.6	16.1	13.6	11.7	10.2	9.1
Q7s	54.5	36.7	27.9	22.7	19.2	16.7	14.8	13.3	12.1
T9s	54.3	38.9	31.0	26.0	22.5	19.8	17.8	16.2	14.9
K6o	54.3	35.0	25.3	19.7	16.0	13.3	11.3	9.8	8.6
J8s	54.2	37.5	29.1	24.0	20.5	17.9	15.9	14.4	13.2
K3s	53.8	35.5	26.7	21.7	18.4	16.2	14.5	13.1	12.1
Q6s	53.8	35.8	27.1	21.9	18.5	16.1	14.3	12.9	11.7
Q8o	53.8	35.4	26.2	20.6	16.9	14.1	12.1	10.5	9.2
33	53.7	33.5	23.9	19.0	16.2	14.6	13.5	12.6	12.0
J9o	53.4	36.5	27.9	22.5	18.7	15.9	13.8	12.1	10.8
K5o	53.3	34.0	24.5	19.0	15.4	12.9	11.0	9.5	8.3

T3s	45.5	29.3	22.0	17.8	15.1	13.2	11.8	10.7	9.8
87o	45.5	30.6	23.2	18.5	15.4	13.1	11.5	10.3	9.3
J3o	45.0	27.1	19.1	14.6	11.7	9.8	8.3	7.2	6.3
96o	44.9	28.8	21.2	16.6	13.5	11.4	9.8	8.7	7.8
85s	44.8	30.2	23.2	19.1	16.3	14.3	12.9	11.8	10.9
T2s	44.7	28.5	21.4	17.4	14.8	13.0	11.6	10.5	9.7
T5o	44.2	27.1	19.3	14.8	11.9	9.9	8.4	7.2	6.4
J2o	44.0	26.2	18.4	14.1	11.3	9.4	8.0	7.0	6.2
75s	43.8	30.1	23.4	19.4	16.7	14.8	13.4	12.3	11.4
94s	43.8	28.4	21.3	17.3	14.6	12.7	11.3	10.3	9.4
86o	43.6	28.6	21.3	16.9	13.9	11.8	10.4	9.2	8.3
T4o	43.4	26.4	18.7	14.3	11.5	9.5	8.1	7.0	6.2
65s	43.2	30.2	23.7	19.7	17.0	15.2	13.8	12.7	11.9
93s	43.2	27.8	20.8	16.8	14.3	12.5	11.1	10.1	9.2
95o	42.9	26.7	19.2	14.8	12.0	10.0	8.5	7.4	6.6
84s	42.7	28.1	21.4	17.4	14.8	13.0	11.7	10.6	9.8
76o	42.7	28.5	21.5	17.1	14.2	12.2	10.8	9.6	8.8
T3o	42.4	25.5	18.0	13.7	11.0	9.1	7.8	6.8	6.0
92s	42.3	27.0	20.2	16.4	13.9	12.2	10.9	9.9	9.1
74s	41.8	28.2	21.7	17.9	15.3	13.5	12.2	11.2	10.4
85o	41.7	26.5	19.4	15.2	12.4	10.5	9.1	8.1	7.3
T2o	41.5	24.7	17.3	13.2	10.6	8.8	7.5	6.6	5.8
64s	41.4	28.5	22.1	18.4	15.9	14.2	12.9	11.9	11.1
54s	41.1	28.8	22.6	18.9	16.5	14.8	13.5	12.5	11.7
83s	40.8	26.3	19.8	16.0	13.6	11.9	10.7	9.7	8.9
75o	40.8	26.5	19.7	15.5	12.8	11.0	9.7	8.7	7.9
94o	40.7	24.6	17.3	13.2	10.5	8.7	7.3	6.4	5.6
82s	40.3	25.8	19.4	15.7	13.3	11.7	10.5	9.6	8.8
65o	40.1	26.7	20.0	15.9	13.3	11.5	10.2	9.2	8.5
73s	40.0	26.3	20.0	16.4	14.0	12.3	11.1	10.1	9.3
93o	39.9	23.9	16.7	12.7	10.1	8.3	7.1	6.1	5.4
84o	39.6	24.4	17.5	13.4	10.8	9.0	7.8	6.8	6.1
63s	39.4	26.5	20.4	16.8	14.5	12.9	11.7	10.8	10.0
53s	39.3	27.1	21.1	17.5	15.2	13.7	12.5	11.6	10.8
92o	38.9	22.9	16.0	12.1	9.6	8.0	6.8	5.9	5.2
74o	38.6	24.5	17.9	13.9	11.4	9.7	8.5	7.6	6.8
72s	38.1	24.5	18.4	15.0	12.8	11.2	10.1	9.2	8.5
43s	38.0	26.2	20.3	16.9	14.7	13.1	12.0	11.1	10.3
64o	38.0	24.7	18.2	14.4	12.0	10.3	9.2	8.3	7.6
54o	37.9	25.2	18.8	15.0	12.6	11.0	9.8	8.9	8.2
52s	37.5	25.3	19.5	16.1	14.0	12.5	11.4	10.6	9.8

K2s	52.9	34.6	26.0	21.2	18.1	15.9	14.3	13.0	11.9
Q5s	52.9	34.9	26.3	21.4	18.1	15.8	14.1	12.7	11.6
T8s	52.6	36.9	29.0	24.0	20.6	18.1	16.2	14.8	13.6
J7s	52.4	35.4	27.1	22.2	18.9	16.4	14.6	13.2	12.0
K4o	52.1	32.8	23.4	18.1	14.7	12.3	10.5	9.1	8.0
Q7o	51.9	33.2	24.0	18.6	15.1	12.5	10.6	9.2	8.0
Q4s	51.7	33.9	25.5	20.7	17.6	15.4	13.7	12.4	11.3
T9o	51.7	35.7	27.7	22.5	18.9	16.2	14.1	12.6	11.3
J8o	51.7	34.2	25.6	20.4	16.8	14.1	12.2	10.7	9.5
K3o	51.2	31.9	22.7	17.6	14.2	11.9	10.2	8.9	7.8
98s	51.1	36.0	28.5	23.6	20.2	17.8	15.9	14.5	13.4
Q6o	51.1	32.3	23.2	17.9	14.4	12.0	10.1	8.8	7.6
T7s	51.0	34.9	27.0	22.2	19.0	16.6	14.8	13.5	12.4
J6s	50.8	33.6	25.4	20.6	17.4	15.2	13.5	12.1	11.1
Q3s	50.7	33.0	24.7	20.1	17.0	14.9	13.3	12.1	11.1

62s	37.5	24.8	18.8	15.4	13.3	11.8	10.7	9.8	9.1
83o	37.5	22.4	15.7	11.9	9.5	7.9	6.7	5.8	5.1
82o	36.8	21.7	15.1	11.4	9.1	7.5	6.4	5.6	4.9
73o	36.6	22.4	16.0	12.3	9.9	8.4	7.2	6.4	5.7
42s	36.3	24.6	18.8	15.7	13.7	12.3	11.2	10.4	9.6
63o	35.9	22.7	16.4	12.8	10.6	9.1	8.0	7.2	6.5
53o	35.8	23.3	17.1	13.6	11.4	9.9	8.8	8.0	7.3
32s	35.1	23.6	18.0	14.9	13.0	11.7	10.7	9.9	9.2
72o	34.6	20.4	14.2	10.7	8.6	7.2	6.1	5.4	4.8
43o	34.4	22.3	16.3	12.8	10.7	9.3	8.3	7.5	6.8
62o	34.0	20.7	14.6	11.2	9.1	7.8	6.8	6.0	5.4
52o	33.9	21.3	15.3	12.0	10.0	8.6	7.6	6.8	6.2
42o	32.5	20.5	14.7	11.5	9.5	8.3	7.3	6.6	6.0
32o	31.2	19.5	13.9	10.8	8.9	7.7	6.8	6.1	5.6

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