

Poker outs to odds chart

After the flop, with 47 unseen cards. Exact percentages and the rule of 2 and 4 estimate.

Outs	Example draw	Turn card only	By the river	Rule of 2 / rule of 4
1		2.1%	4.3%	2% / 4%
2	Pocket pair to a set	4.3%	8.4%	4% / 8%
3		6.4%	12.5%	6% / 12%
4	Gutshot straight draw	8.5%	16.5%	8% / 16%
5		10.6%	20.4%	10% / 20%
6	Two overcards	12.8%	24.1%	12% / 24%
7		14.9%	27.8%	14% / 28%
8	Open-ended straight draw	17.0%	31.5%	16% / 32%
9	Flush draw	19.1%	35.0%	18% / 36%
10		21.3%	38.4%	20% / 40%
11		23.4%	41.7%	22% / 44%
12	Flush draw plus gutshot	25.5%	45.0%	24% / 48%
13		27.7%	48.1%	26% / 52%
14		29.8%	51.2%	28% / 56%
15	Flush draw plus open-ender	31.9%	54.1%	30% / 60%
16		34.0%	57.0%	32% / 64%
17		36.2%	59.8%	34% / 68%
18		38.3%	62.4%	36% / 72%
19		40.4%	65.0%	38% / 76%
20		42.6%	67.5%	40% / 80%

Turn column is outs divided by 47. River column counts both remaining cards.

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Pot odds chart by bet size

The price a bet offers you, and the equity you need for calling to break even.

Bet you face	Odds you are getting	Equity you need
Quarter pot	5 to 1	17%
Third pot	4 to 1	20%
Half pot	3 to 1	25%
Two-thirds pot	2.5 to 1	29%
Three-quarters pot	2.3 to 1	30%
Pot	2 to 1	33%
Overbet, 1.5x pot	1.7 to 1	38%
Double pot	1.5 to 1	40%

Break-even equity is your call divided by the pot after your call.

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Common poker odds

The numbers players actually look up, as a percentage and as one in N.

Situation	Chance	As 1 in N
Flush draw completes by the river	35%	1 in 2.9
Open-ended straight draw completes by the river	32%	1 in 3.2
Two overcards pair by the river	24%	1 in 4.1
Gutshot completes by the river	16.5%	1 in 6.1
Pocket pair flops a set or better	12%	1 in 8.5
Two unpaired cards flop at least one pair	32%	1 in 3.1
Two suited cards get three more of their suit by the river	5.8%	1 in 17
Dealt any pocket pair	5.9%	1 in 17
Dealt pocket aces	0.45%	1 in 221

Draw rows assume the flop is out and both remaining cards are still to come.

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Preflop matchup equity chart

Approximate all-in equities before the flop, stated as approximations.

Matchup	Example hands	Favourite	Underdog
Overpair against an underpair	AA against KK	About 80%	About 20%
Pair against two overcards	22 against AK	Slight edge to the pair	Close to even
Dominated high cards	AQ against AK	74% for AK	26% for AQ
Best starting hand against any two cards	AA	85%	15%
Big pair against any two cards	QQ, then JJ	80%, then 77.5%	20%, then 22.5%
Best unpaired hand against any two cards	AKs, then AKo	67%, then 65%	33%, then 35%

Values are rounded. Suits and straight interference move them a point or two.

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