Knowing the Odds



Some poker players love math. They calculate the odds of complex hand situations just for fun. Others have flashbacks to high school algebra and loathe the whole process, preferring to rely more on situational decisions, reads of players, and instinct.

However, even the most resolute mathphobe needs to commit to memory a few key odds so that they can make good bet sizing and calling decisions. The diagrams below summarize some key odds that every player needs to know, from the odds of getting certain starting hands to how those hands can play out over the flop, turn, and river. These odds are grouped according to the most critical hole card combinations: Pairs, Suited Cards, Connected Cards, and Broadway Cards. However, many of these odds are applicable to wider situations: the odds of pairing 8-3 off-suit on the flop are the same as pairing A-K, so you can apply the odds we present for Broadway cards to other non-Broadway holdings as well.

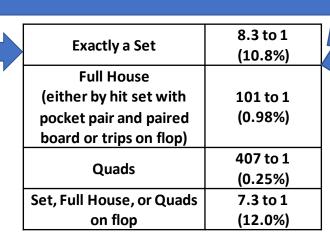
Of course, if you are voluntarily entering pots with 8-3 off-suit very often, we should have a broader discussion!

PAIRS

Key Facts:

Ignite your game. You are dealt a pair in less than 6% of hands You are dealt pocket Aces, less than half of a percent of the time (1 out of every 221 hands) You'll flop a set or better with a pocket pair about 12% of the time (a little worse than 1 time out of 8) 3) If you get all the way to the river, you'll hit a set or better about 1 in every 5 times Starting Hand Example Flop Turn

Any Pair (all AA through 22)	16 to 1 (5.9%)
Specific Pair (Just AA, KK, QQ, etc.)	220 to 1 (0.45%)



Full House o	r better	5.7 to 1	7

(14.9%)

(from set on the flop)

River



Set or better by river
(seeing all 5
community cards,
excluding straights
and flushes)

3.7	to 1
(21	.1%)

Full House or better	
(from set on the flop	2.0 to 1
and seeing turn and	(33.3%)
river)	
Full House or better	3.6 to 1
(from having set on	
flop or turn)	(21.7%)

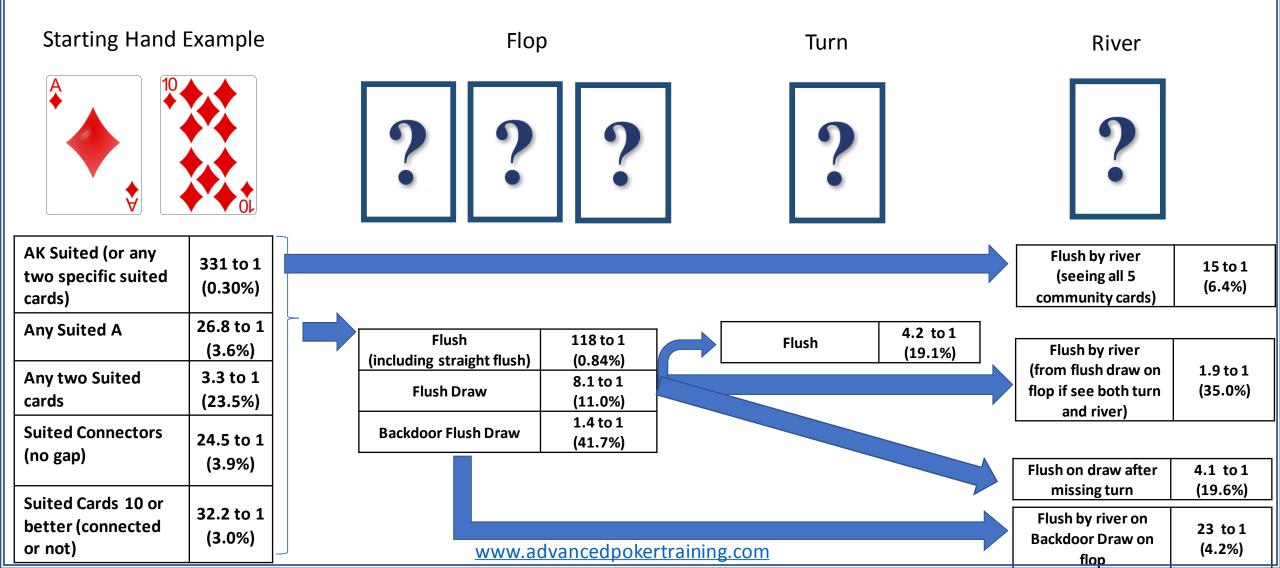
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Suited Cards

Ignite your game.

Key Facts:

- 1) With two suited cards, you have less than 1% chance of flopping a flush and just over 6% of making a flush by the river
- 2) A flush draw on the flop makes the flush on turn about 1 in 5 times, and by the river (if both turn and river are seen) about 1 in 3 times
- 3) A backdoor flush draw on the flop, needing runner-runner of the suit on the turn and river, will only get there 4% of the time

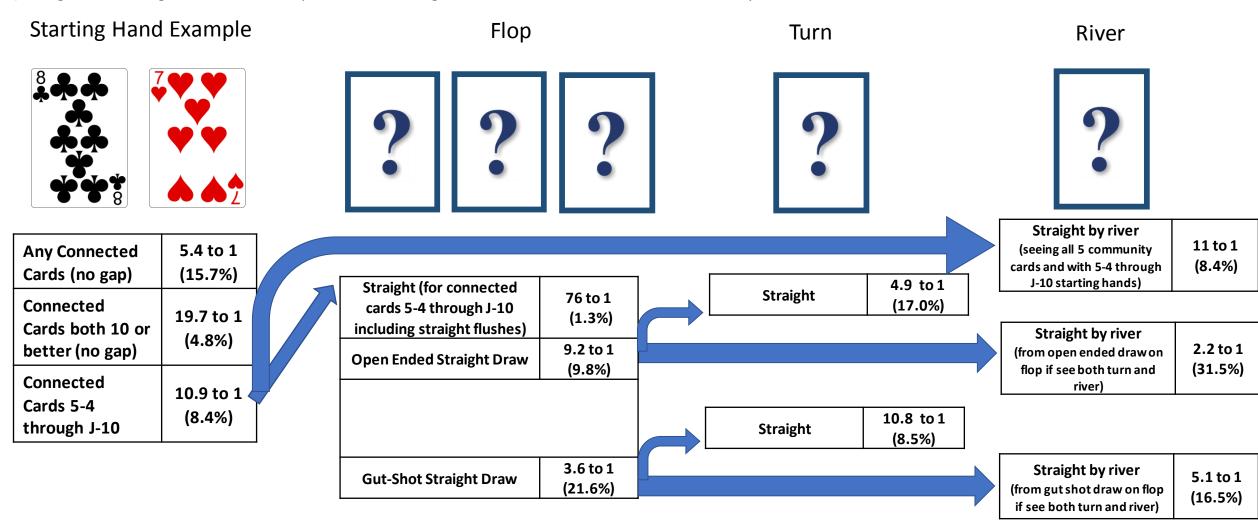


Connected Cards



Key Facts:

- 1) With two connected cards 5 through J, you have slightly more than 1% chance of flopping a straight and just over 8% of making a straight by the river
- 2) An open ended straight draw on the flop makes a straight on the turn about 1 in 6 times, and by the river a little less than 1 in 3 times
- 3) A gut-shot straight draw on the flop makes the straight on the turn about 1 in 12 times, and by the river about 1 in 6 times



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Broadway Cards

- Ignite your game.

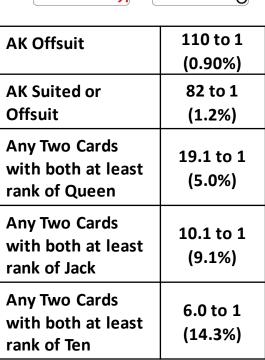
- **Key Facts:**
- With your two unpaired hole cards you will miss the flop twice for every time you hit it
- 2) Flopping a full house from unpaired whole cards is a near miracle, a less than a 1 in 1,000 event
- 3) If you flop two pair with both of your hole cards, you will make a full house 1 in 12 times on the turn and 1 in 6 times by the river

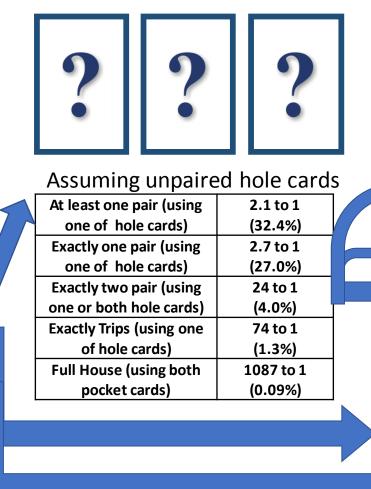
Flop

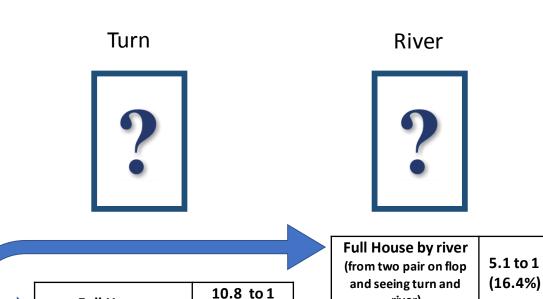
4) Overcards will pair the board about 1 in 8 times on the turn after missing the flop











(8.5%)

Making a pair from one hole card (e.g., 6.8 to 1 overcards to board) if (12.8%)missed the flop

Full House

Making a pair on river from one hole card (e.g., overcards to board) if missed the flop and turn Making a pair on turn OR

river)

Full House (after

missing draw on

turn)

river from one hole card 3.1 to 1 (e.g., overcards to board) (24.1%)if missed flop

10.5 to 1

(8.7%)

6.7 to 1

(13.0%)

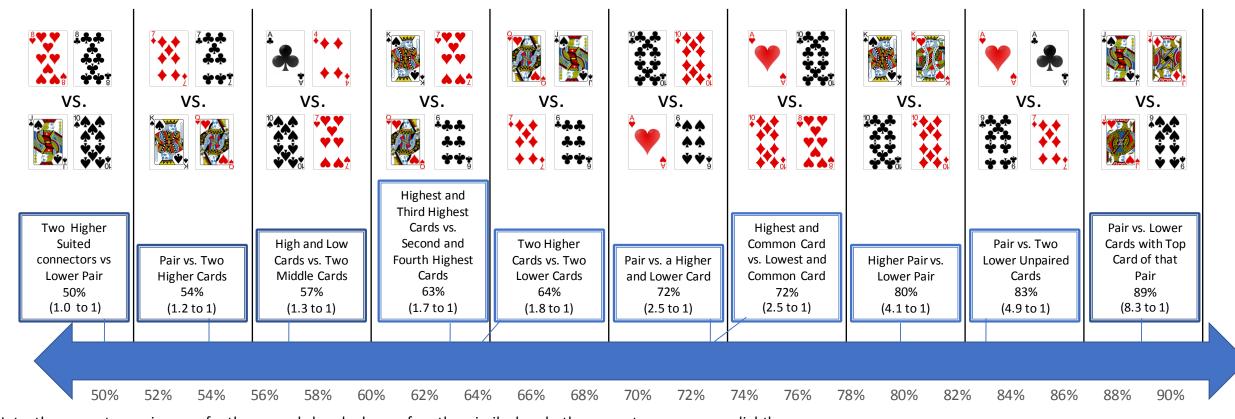
How Dominant Are You Preflop?



Key Facts:

- 1) A pair against two overcards is the classic "race" with the pair a slight favorite in most cases
- 2) A lower pair will beat a higher pair about 1 in 5 times
- 3) Two unpaired higher cards versus two unpaired lower cards is less than a 2 to 1 favorite. That's right: 2-7 off will beat AK suited about 1 time out of 3
- 4) Having a high pair against two unpaired lower cards is generally the strongest All-In scenario

EXAMPLE HANDS*



*Note: the percentages given are for the example hands shown; for other similar hands, the percentages may vary slightly.