

Nice Dice by Roxor Gaming – best strategy

Initial roll	First decision	Second decision
Five of a kind, Straight	stand	
Four of a kind	reroll unmatched die	
Three of a kind	hold three of a kind, reroll the other two dice	reroll the other two dice
Full House		stand
insider Pair and 2345	hold the 2345, reroll the paired die	
insider Pair and 1 or 6	hold the pair, reroll the other three	hold 4 to a Straight, reroll the paired die
11 or 66 Pair	hold the pair, reroll the other three dice	
Two Pair	hold 22, 33, 44 or 55 if you have it, otherwise either pair; reroll the other three	hold both pairs, reroll the other die
13456, 12456, 12356, 12346	reroll 1 and 6, hold three insiders	reroll 1 or 6, hold the other four

Initial roll	First decision	Expected value
Five of a kind	stand	4.000
Four of a kind	reroll unmatched die	2.958
Straight	stand	2.000
Three of a kind	reroll the other two dice	1.539
Full House	hold three of a kind, reroll the other two dice	1.539
insider Pair and 2345	hold the 2345, reroll the paired die	1.111
insider Pair and 1 or 6	hold the pair, reroll the other three	0.755
11 or 66 Pair	hold the pair, reroll the other three	0.742
Two Pair 11 and 66	hold either pair, reroll the other three	0.742
any other Two Pair	hold insider pair, reroll the other three	0.755
13456, 12456, 12356, 12346	reroll 1 and 6, hold three insiders	0.634

Second roll	Second decision	Expected value
Five of a kind	stand	4.000
Four of a kind	reroll unmatched die	2.750
Straight	stand	2.000
Three of a kind	reroll the other two dice	0.944
Full House	stand	1.000
insider Pair and 2345	hold the 2345, reroll the paired die	0.667
insider Pair and 1 or 6	hold 4 to a Straight, reroll the paired die	0.333
Two Pair 11 and 66	hold both pairs, reroll the other die	0.333
any other Two Pair	hold both pairs, reroll the other die	0.333
13456, 12456, 12356, 12346	reroll 1 or 6, hold the other four	0.333
11 or 66 Pair	hold the pair, reroll the other three	0.285