

Table for Problem Set 3

This table gives the number of perfect shuffles necessary to restore an n -card deck to its original state.

# cards	# shuffles	# cards	# shuffles
4	2	36	12
6	4	38	36
8	3	40	12
10	6	42	20
12	10	44	14
14	12	46	12
16	4	48	23
18	8	50	21
20	18	52	8
22	6	54	52
24	11	56	20
26	20	58	18
28	18	60	58
30	28	62	60
32	5	64	6
34	10	66	12

Note: Only even values of n listed above to save space. Any deck of n cards with odd n will require the same number of shuffles as a deck with $n + 1$ cards.