

Your observations (July 3, 2019)

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
27	18	60	58
28	18	62	60
30	28	64	6
32	5	66	12
34	10		

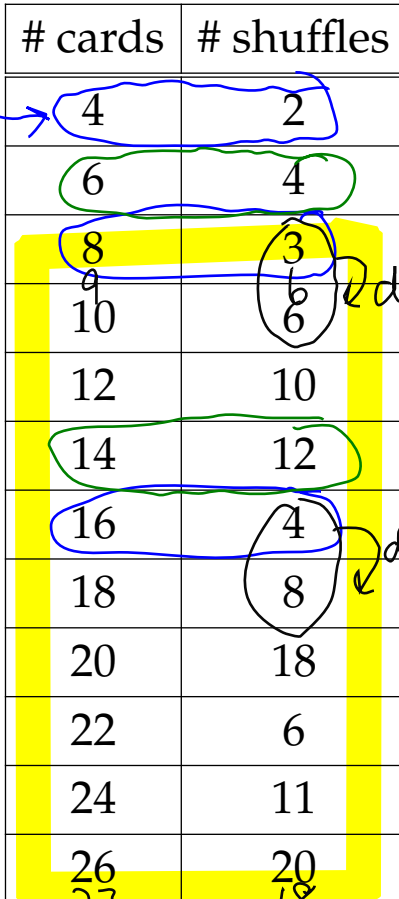
looks like powers of 2?

Corresponds with the table in #5 on Problem Set 3

3-card & 4-card decks behave similarly

Also look at $n =$ powers of 3

A LOT OF SHUFFLES !!



double

double

double

double