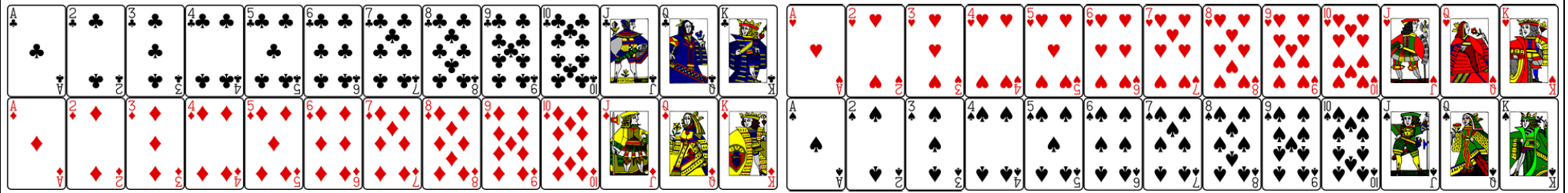


Theoretical Probability with Playing Cards



(a)	(b)	(c)	(d)
A playing card is chosen at random. What is the probability that it is a red card?	A playing card is chosen at random. What is the probability that it is a king (K)?	A playing card is chosen at random. What is the probability that it is the ace (A) of hearts?	A playing card is chosen at random. What is the probability that it is a spade card?
(e)	(f)	(g)	(h)
A playing card is chosen at random. What is the probability that it is not a diamond card?	A playing card is chosen at random. What is the probability that it is a 2, 3 or 4?	A playing card is chosen at random. What is the probability that it is a queen (Q) or a king (K)?	A playing card is chosen at random. What is the probability that it is a red card with a prime number on it?
(i)	(j)		(k)
A playing card is chosen at random. What is the probability that it is a red non-picture card?	Bruce chooses a card at random, looks at it and then replaces it in the deck. He repeats this 520 times. How many times would Bruce expect to see an ace?		Nadia chooses a card at random, looks at it and then replaces it in the deck. She repeats this 260 times. How many times would Nadia expect to see a red jack (J) or red queen (Q)?