

NCERT Exemplar 10.13.3.28

Ved Khilari- EE22BTECH11056

Question 10.13.3.29

The king, queen and jack of clubs are removed from a deck of 52 playing cards and then well shuffled. Now one card is drawn at random from the remaining cards. Determine the probability that the card is

- (i) a heart
- (ii) a king

Solution:

Total number of cards left

$$52 - 3 = 49 \quad (1)$$

Random variable	Sample space	Value	Event	Probability
X_1	49	1	the card is a heart	$\frac{13}{49}$
X_2	49	1	the card is a king	$\frac{3}{49}$