EE23010 NCERT Exemplar

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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 club
(ii) 10 of hearts

Solution:
Total number of cards left

$$52 - 3 = 49 \tag{1}$$

Random variable	Sample space	Event	Probability
X_1	49	the card is a club	$\frac{10}{49}$
X_2	49	the card is a 10 of hearts	$\frac{1}{49}$