EduSahara™ Assignment

Name : Card Problems

Chapter : Probability

Grade : SSC Grade X

1. One card is drawn at random from a well shuffled deck of 52 cards. What is the probability that the card drawn is a queen?

   (i) $\frac{1}{52}$ (ii) $\frac{1}{26}$ (iii) $\frac{1}{13}$ (iv) $\frac{3}{13}$ (v) $\frac{1}{4}$

2. One card is drawn at random from a well shuffled deck of 52 cards. What is the probability that the card drawn is a black king?

   (i) $\frac{1}{52}$ (ii) $\frac{3}{13}$ (iii) $\frac{1}{13}$ (iv) $\frac{1}{4}$ (v) $\frac{1}{26}$

3. One card is drawn at random from a well shuffled deck of 52 cards. What is the probability that the card drawn is a jack of spades?

   (i) $\frac{1}{52}$ (ii) $\frac{3}{13}$ (iii) $\frac{1}{4}$ (iv) $\frac{1}{26}$ (v) $\frac{1}{13}$

4. One card is drawn at random from a well shuffled deck of 52 cards. What is the probability that the card drawn is '2' of spades?

   (i) $\frac{1}{52}$ (ii) $\frac{3}{13}$ (iii) $\frac{1}{26}$ (iv) $\frac{1}{13}$ (v) $\frac{1}{4}$

5. One card is drawn at random from a well shuffled deck of 52 cards. What is the probability that the card drawn is '8' of red suit ?

   (i) $\frac{1}{26}$ (ii) $\frac{3}{13}$ (iii) $\frac{1}{13}$ (iv) $\frac{1}{4}$ (v) $\frac{1}{52}$

6. One card is drawn at random from a well shuffled deck of 52 cards. What is the probability that the card drawn is a spades?

   (i) $\frac{1}{52}$ (ii) $\frac{1}{26}$ (iii) $\frac{3}{13}$ (iv) $\frac{1}{4}$ (v) $\frac{1}{13}$

7. One card is drawn at random from a well shuffled deck of 52 cards. What is the probability that the card drawn is a face card ?

   (i) $\frac{1}{52}$ (ii) $\frac{3}{13}$ (iii) $\frac{1}{13}$ (iv) $\frac{1}{4}$ (v) $\frac{1}{26}$

8. One card is drawn at random from a well shuffled deck of 52 cards. What is the probability that the card drawn is either a red card or a jack?

   (i) $\frac{1}{13}$ (ii) $\frac{1}{26}$ (iii) $\frac{3}{13}$ (iv) $\frac{7}{13}$ (v) $\frac{1}{52}$

9. When a card is selected randomly out of a pack of cards, how many elementary events are possible?

   (i) 53 (ii) 55 (iii) 51 (iv) 52 (v) 50

10. 85 cards are numbered 1,2,3,....85 and put in a box and mixed thoroughly. A card is drawn at random. What is the probability that the number on the drawn card is an odd number?

(i) $\frac{43}{85}$ (ii) $\frac{22}{43}$ (iii) $\frac{44}{85}$ (iv) $\frac{42}{85}$

11. 89 cards are numbered 1,2,3,....89 and put in a box and mixed thoroughly. A card is drawn at random. What is the probability that the number on the drawn card is a prime number?

(i) $\frac{65}{89}$ (ii) $\frac{5}{18}$ (iii) $\frac{23}{89}$ (iv) $\frac{25}{89}$ (v) $\frac{24}{89}$

12. 91 cards are numbered 1,2,3,....91 and put in a box and mixed thoroughly. A card is drawn at random. What is the probability that the number on the drawn card is divisible by 5?

(i) $\frac{19}{91}$ (ii) $\frac{19}{92}$ (iii) $\frac{17}{91}$ (iv) $\frac{73}{91}$ (v) $\frac{18}{91}$

13. 84 cards are numbered 1,2,3,....84 and put in a box and mixed thoroughly. A card is drawn at random. What is the probability that the number on the drawn card is less then 13?

(i) 0 (ii) $\frac{1}{4}$ (iii) $\frac{1}{7}$ (iv) $\frac{2}{7}$ (v) $\frac{6}{7}$

14. 82 cards are numbered 1,2,3,....82 and put in a box and mixed thoroughly. A card is drawn at random. What is the probability that the number on the drawn card is greater then 17?

(i) $\frac{33}{41}$ (ii) $\frac{66}{83}$ (iii) $\frac{65}{82}$ (iv) $\frac{32}{41}$ (v) $\frac{17}{82}$

Assignment Key

1) (iii)	2) (v)	3) (i)	4) (i)	5) (i)	6) (iv)
7) (ii)	8) (iv)	9) (iv)	10) (i)	11) (v)	12) (v)
13) (iii)	14) (iii)				