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 king?

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

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

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 king of hearts?

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

4. One card is drawn at random from a well shuffled deck of 52 cards. What is the probability that the card drawn is '10' of spades?

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

5. 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 red suit ?

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

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 diamonds?

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

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) $\frac{1}{4}$ (iii) $\frac{1}{13}$ (iv) $\frac{3}{13}$ (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 queen?

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

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

   (i) 53 (ii) 54 (iii) 51 (iv) 52 (v) 50

10. 74 cards are numbered 1,2,3,....74 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) $\frac{2}{3}$ (ii) $\frac{3}{4}$ (iii) $\frac{4}{5}$ (iv) $\frac{5}{6}$ (v) $\frac{1}{2}$

11. 100 cards are numbered 1,2,3,....100 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) $\frac{1}{2}$ (ii) $\frac{3}{4}$ (iii) 0 (iv) $\frac{2}{5}$ (v) $\frac{1}{4}$

12. 50 cards are numbered 1,2,3,....50 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) $\frac{2}{5}$ (ii) $\frac{1}{3}$ (iii) $\frac{4}{5}$ (iv) $\frac{1}{5}$ (v) 0

13. 60 cards are numbered 1,2,3,....60 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 20?

(i) $\frac{41}{60}$ (ii) $\frac{19}{60}$ (iii) $\frac{20}{61}$ (iv) $\frac{3}{10}$ (v) $\frac{1}{3}$

14. 92 cards are numbered 1,2,3,....92 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 21?

(i) $\frac{35}{46}$ (ii) $\frac{21}{92}$ (iii) $\frac{71}{92}$ (iv) $\frac{24}{31}$ (v) $\frac{18}{23}$

Assignment Key

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