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

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

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

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

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

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

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

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

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) $\frac{1}{13}$ (ii) $\frac{3}{13}$ (iii) $\frac{1}{4}$ (iv) $\frac{1}{52}$ (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 black card or a king?

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

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

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

10. 90 cards are numbered 1,2,3,....90 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) $\frac{4}{5}$ (ii) $\frac{1}{2}$ (iii) $\frac{3}{4}$ (iv) $\frac{2}{3}$ (v) $\frac{5}{6}$

11. 53 cards are numbered 1,2,3,....53 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) $\frac{37}{53}$ (ii) $\frac{17}{53}$ (iii) $\frac{16}{53}$ (iv) $\frac{17}{54}$ (v) $\frac{15}{53}$

12. 56 cards are numbered 1,2,3,....56 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) $\frac{4}{19}$ (ii) $\frac{45}{56}$ (iii) $\frac{11}{56}$ (iv) $\frac{3}{14}$ (v) $\frac{5}{28}$

13. 97 cards are numbered 1,2,3,....97 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 10?

(i) $\frac{10}{97}$ (ii) $\frac{88}{97}$ (iii) $\frac{8}{97}$ (iv) $\frac{5}{49}$ (v) $\frac{9}{97}$

14. 80 cards are numbered 1,2,3,....80 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 10?

(i) $\frac{1}{8}$ (ii) $\frac{3}{4}$ (iii) 1 (iv) $\frac{8}{9}$ (v) $\frac{7}{8}$

Assignment Key

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