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) $\frac{1}{13}$ (ii) $\frac{1}{52}$ (iii) $\frac{1}{26}$ (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 ace?

   (i) $\frac{1}{52}$ (ii) $\frac{1}{13}$ (iii) $\frac{1}{4}$ (iv) $\frac{3}{13}$ (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 king of diamonds?

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

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

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

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

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

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

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 king?

   (i) $\frac{1}{52}$ (ii) $\frac{3}{13}$ (iii) $\frac{1}{26}$ (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) 51 (ii) 54 (iii) 49 (iv) 52 (v) 53

10. 79 cards are numbered 1,2,3,....79 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) $\frac{41}{79}$ (ii) $\frac{39}{79}$ (iii) $\frac{40}{79}$ (iv) $\frac{41}{80}$

11. 64 cards are numbered 1,2,3,....64 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) $\frac{1}{4}$ (ii) $\frac{5}{16}$ (iii) $\frac{10}{33}$ (iv) $\frac{23}{32}$ (v) $\frac{9}{32}$

12. 65 cards are numbered 1,2,3,....65 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) $\frac{4}{5}$ (ii) 0 (iii) $\frac{1}{5}$ (iv) $\frac{2}{5}$ (v) $\frac{1}{3}$

13. 65 cards are numbered 1,2,3,....65 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 21?

(i) $\frac{4}{13}$ (ii) $\frac{5}{14}$ (iii) $\frac{3}{13}$ (iv) $\frac{5}{13}$ (v) $\frac{9}{13}$

14. 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 greater then 26?

(i) $\frac{71}{97}$ (ii) $\frac{72}{97}$ (iii) $\frac{70}{97}$ (iv) $\frac{36}{49}$ (v) $\frac{26}{97}$

Assignment Key

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