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) $\frac{3}{13}$ (iii) $\frac{1}{13}$ (iv) $\frac{1}{26}$ (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 red ace?

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

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

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 clubs?

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

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

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

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

   (i) 55 (ii) 49 (iii) 52 (iv) 51 (v) 53

10. 61 cards are numbered 1,2,3,....61 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) $\frac{16}{31}$ (ii) $\frac{31}{61}$ (iii) $\frac{32}{61}$ (iv) $\frac{30}{61}$

11. 55 cards are numbered 1,2,3,....55 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) $\frac{3}{11}$ (ii) $\frac{16}{55}$ (iii) $\frac{17}{56}$ (iv) $\frac{39}{55}$ (v) $\frac{17}{55}$

12. 98 cards are numbered 1,2,3,....98 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) $\frac{79}{98}$ (ii) $\frac{19}{98}$ (iii) $\frac{20}{99}$ (iv) $\frac{9}{49}$ (v) $\frac{10}{49}$

13. 67 cards are numbered 1,2,3,....67 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 28?

(i) $\frac{27}{67}$ (ii) $\frac{7}{17}$ (iii) $\frac{40}{67}$ (iv) $\frac{26}{67}$ (v) $\frac{28}{67}$

14. 71 cards are numbered 1,2,3,....71 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 13?

(i) $\frac{59}{71}$ (ii) $\frac{57}{71}$ (iii) $\frac{13}{71}$ (iv) $\frac{58}{71}$ (v) $\frac{59}{72}$

Assignment Key

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