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) $\frac{3}{13}$ (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 king?

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

   (i) $\frac{1}{26}$ (ii) $\frac{1}{4}$ (iii) $\frac{1}{13}$ (iv) $\frac{1}{52}$ (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 '10' of black suit ?

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

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

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

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

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

10. 99 cards are numbered 1,2,3,....99 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) $\frac{49}{99}$ (ii) $\frac{51}{100}$ (iii) $\frac{17}{33}$ (iv) $\frac{50}{99}$

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

12. 76 cards are numbered 1,2,3,....76 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) $\frac{7}{38}$ (ii) $\frac{4}{19}$ (iii) $\frac{61}{76}$ (iv) $\frac{15}{76}$ (v) $\frac{16}{77}$

13. 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 less then 22?

(i) $\frac{3}{13}$ (ii) $\frac{2}{13}$ (iii) $\frac{2}{7}$ (iv) $\frac{10}{13}$ (v) $\frac{4}{13}$

14. 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 greater then 14?

(i) $\frac{14}{17}$ (ii) $\frac{14}{85}$ (iii) $\frac{72}{85}$ (iv) $\frac{71}{85}$ (v) $\frac{36}{43}$

## Assignment Key

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