EduSahara™ Learning Center Assignment

Grade : Class X, SSC
Chapter : Probability
Name : Card Problems

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

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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 queen?

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

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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 hearts?

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

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4. One card is drawn at random from a well shuffled deck of 52 cards. What is the probability that the card drawn is '9' of hearts?

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

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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 red suit ?

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

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

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

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

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

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

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10. 70 cards are numbered 1,2,3,....70 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) $\frac{2}{3}$ (iii) $\frac{1}{2}$ (iv) $\frac{3}{4}$ (v) $\frac{5}{6}$

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11. 72 cards are numbered 1,2,3,....72 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) $\frac{6}{19}$ (ii) $\frac{13}{18}$ (iii) $\frac{5}{18}$ (iv) $\frac{2}{9}$ (v) $\frac{1}{3}$

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12. 68 cards are numbered 1,2,3,....68 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) $\frac{55}{68}$ (ii) $\frac{7}{34}$ (iii) $\frac{13}{68}$ (iv) $\frac{3}{17}$ (v) $\frac{14}{69}$

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13. 93 cards are numbered 1,2,3,....93 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 23?

(i) $\frac{7}{31}$ (ii) $\frac{23}{93}$ (iii) $\frac{23}{94}$ (iv) $\frac{22}{93}$ (v) $\frac{71}{93}$

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14. 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 greater then 26?

(i) $\frac{6}{11}$ (ii) $\frac{29}{55}$ (iii) $\frac{26}{55}$ (iv) $\frac{28}{55}$ (v) $\frac{15}{28}$

Assignment Key

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