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Probability Questions for IBPS RRB SCALE- I Pre & RRB Office Asst. Pre Exams – Probability Quiz at Smartkeeda.

Probability Quiz 6

Directions: Kindly study the following Questions carefully and choose the right answer:

1. A person has to call his friend but he doesn't remember the last three digits of the 10-digit phone number though he remembers that the number was not even and last three digits are different. What is $5!$ times the probability that he will dial the correct number?

- A. $18/25$ B. $2/5$ C. $1/3$ D. $3/7$ E. $1/4$

2. There are 6 pink, 5 blue and 4 black masks in a box. Out of these masks, four masks are picked at random from the box. What is the probability that one is blue, two are black and one is pink mask?

- A. $12/91$ B. $75/182$ C. $45/146$ D. $15/134$ E. None of these

3. A bag has 7 green, 5 red and 4 blue balls. If two balls are drawn randomly what is the probability that exactly one ball is blue and both balls are of different color?

- A. $1/5$ B. $2/3$ C. $2/5$ D. $4/7$ E. $1/3$

4. A bag has a few white and 10 red balls. Probability of getting a white ball if chosen at random is $3/8$. Find the probability of getting two red balls if two balls are chosen at random.

- A. $3/4$ B. $2/5$ C. $1/8$ D. $3/8$ E. $5/16$

5. Find the probability that all vowels will come together if all the letters in the word "MARKING" are randomly written to form a new word.

- A. $1/7$ B. $2/7$ C. $3/7$ D. $7/11$ E. $5/6$



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6. A person randomly selects two pieces from the white pieces of chess, what is the probability that both the pieces are similar?

- A. $1/4$ B. $7/30$ C. $31/120$ D. $4/15$ E. None of these

7. A bag has 4 red balls and 7 green balls. Find the probability of getting one red and two green balls if three balls are chosen at random from the bag.

- A. $24/55$ B. $28/55$ C. $32/59$ D. $28/59$ E. $24/53$

8. A bag contains 8 blue rubber and x pink rubber and the probability of choosing a pink rubber is $(3/7)$. If we have to select two rubbers, then what is the probability that both rubbers are of different colour?

- A. $48/91$ B. $35/72$ C. $45/91$ D. $40/71$ E. None of these

9. A box has four identical dices. Find the probability of getting a number other than '1' if a dice is chosen at random from the box and is thrown on a plane surface.

- A. $1/6$ B. $1/24$ C. $5/6$ D. $2/3$ E. $1/3$

10. In a bag, there are 8 red balls, 5 white balls and 7 blue balls. A man randomly draws 3 balls from the bag. Find the probability that 2 balls are white in colour.

- A. $11/51$ B. $8/49$ C. $6/37$ D. $4/19$ E. $5/38$



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Correct Answers:

1	2	3	4	5	6	7	8	9	10
C	A	C	D	B	C	B	A	C	E

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Explanations:

1.

Let the last digits be A B C

C can't be even, so there are five ways of entering C,

As the numbers are different there will be one less possibility for A and then one less for B

So total possible combinations = $5 \times 9 \times 8$ and out of these only one combination is right

$$P(\text{dialing right number}) = \frac{1}{5 \times 9 \times 8} = \frac{1}{360}$$

$$\text{Reqd.} = \frac{5! \times 1}{360} = \frac{1}{3}$$

Hence, option C is correct.

2.

$$\begin{aligned}\text{Reqd. probability} &= \frac{{}^5C_1 \times {}^4C_2 \times {}^6C_1}{{}^{15}C_4} \\ &= \frac{[5 \times (4 \times 3)/2 \times 6]}{[(15 \times 14 \times 13 \times 12)/(4 \times 3 \times 2 \times 1)]} \\ &= \frac{12}{91}\end{aligned}$$

Hence, option A is correct.

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3. So, one ball is blue and second is red or green

$$\text{Probability} = \frac{4(7+5)}{{}^{16}C_2} = \frac{2}{5}$$

Hence, option C is correct.

4. Let the number of white balls be 'w', then

$$\frac{w}{w+10} = \frac{3}{8}$$

$$w = 6$$

Probability of getting 2 red balls

$$= \frac{{}^{10}C_2}{{}^{16}C_2} = \frac{3}{8}$$

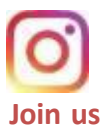
Hence, option D is correct.

5. Total possible arrangements for the letters of the word MARKING = 7!

Number of arrangements when the vowels will come together = 6! × 2!

$$\text{Probability} = \frac{2 \times 6!}{7!} = \frac{2}{7}$$

Hence, option B is correct.



6.

Total white pieces = 16

8 – pawns

2 – knights, Rooks, Bishops

1 – King, Queen

ways to select to similar pieces = ${}^8C_2 + 3 \times {}^2C_2 = 31$

Ways to select two pieces = ${}^{16}C_2 = 120$

$$\text{Probability} = \frac{31}{120}$$

Hence, option C is correct.

7.

We have total $4 + 7 = 11$ balls. Thus

probability of getting one red and two green balls

$$= \frac{{}^4C_1 \times {}^7C_2}{{}^{11}C_3} = \frac{84}{165} = \frac{28}{55}$$

Hence, option B is correct.

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8.

Probability of choosing a pink rubber = $\frac{3}{7}$

$$\frac{x}{x+8} = \frac{3}{7}$$

$$7x = 3x + 24$$

$$4x = 24$$

$$x = 6$$

$$\text{So, Reqd. probability} = \frac{{}^8C_1 \times {}^6C_1}{{}^{14}C_2}$$

$$= \frac{(8 \times 6)}{[(14 \times 13)/(2 \times 1)]} = \frac{48}{91}$$

Hence, option A is correct.

9.

All the dices are identical so no matter which dice is thrown, the probability of getting '1' or not getting '1' is going to be the same.

$$\text{The probability to get '1'} = \frac{1}{6}$$

$$\text{The probability not to get '1'} = 1 - \frac{1}{6} = \frac{5}{6}$$

Hence, option C is correct.



10.

Number of balls in the bag = $8 + 5 + 7 = 20$

Favourable number of ways = $({}^5C_2 \times {}^8C_1) + ({}^5C_2 \times {}^7C_1) = 150$

Total number of ways = ${}^{20}C_3 = 1140$

$$\text{Probability} = \frac{150}{1140} = \frac{5}{38}$$

Hence, option E is correct.



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