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

Probability Quiz 5

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

1. A person has to call his friend but he doesn't the 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

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

Correct Answers:

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

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

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

Hence, option C is correct.

2.

Reqd. probability = $\frac{{}^{5}C_1 \times {}^{4}C_2 \times {}^{6}C_1}{{}^{15}C_4}$

$= \frac{[5 \times (4 \times 3)/2 \times 6]}{[(15 \times 14 \times 13 \times 12)/(4 \times 3 \times 2 \times 1)]}$

$= \frac{12}{91}$

Hence, option A is correct.

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

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!

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 = ${}^{8}C_2 + 3 \times {}^{2}C_2 = 31$

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

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

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

Hence, option B is correct.

8.

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

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

$7x = 3x + 24$

$4x = 24$

$x = 6$

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

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

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.

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

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 = $({}^{5}C_{2} \times {}^{8}C_{1}) + ({}^{5}C_{2} \times {}^{7}C_{1}) = 150$

Total number of ways = ${}^{20}C_{3} = 1140$

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

Hence, option E is correct.