

Probability

Question 1

The probability that A,B,and C each pass the test are $\frac{3}{4}, \frac{1}{2}, \frac{5}{8}$. Find the probability that following cases.

- (1) At least one person passed
- (2) Only two people passed

Question 2

Find the probability that following cases when A tosses two coins and B tosses one coin at the same time.

- (1) The number of the tip of coins for two people is same.
- (2) The number of the tip of A's coins are more than B's.

Question 3

One red ball,two yellow balls and three blue balls are in the bag.You remove one ball from the bag and put it back in.You repeat this operation three times.At this time,find the probability that each of the colors are chosen once.

Question 4

Let P is a point that move on the real number line.you toss the coin and, then the coin shows its face, advance point P by 4 in the positive direction.Also, if the reverse side is found, the point P is advanced by 3 in the negative direction.Find the probability that when the coin has been tossed seven times, the coordinates p of point P are in the following locations.

- (1) $p = 0$
- (2) $p = 14$
- (3) $p = -7$

Question 5

A and B play tennis game.The probability that A and B each win the game are $\frac{2}{3}, \frac{1}{3}$.When the winner of game is the first three games winner , find the probability that A is winner.