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Probability

1. In a non leap year what is the probability of 52 Sundays?
2. In a lottery there are 35 tickets in all, 10 bearing prize numbers and 25 are blanks. A lady draws two tickets and random. What is the probability that she will win no prize.
3. The letters of word CARDIO are rearranged Find the probability that in the rearrangement, the three vowels are not all together.
4. A die is rolled twice. Find the probability that the sum of numbers on the dice is divisible by 3 or 4.
5. The probability that a boy passes a mathematics test is $\frac{3}{4}$ and the probability that he passes the physics test is $\frac{2}{3}$. If the probability of his passing both the tests is $\frac{5}{8}$. Find the probability that he passes at least one of the two subjects.
6. In a lottery a person can choose 5 different numbers at random from 1 to 15 and if these numbers match with the 5 numbers already fixed by the lottery committee (in any order) he wins the bumper prize. What is the probability Of his winning the bumper prize?
7. A, B, C shoot to hit a target If the the probability of A, B, C hitting the target are respectively $\frac{4}{5}$, $\frac{3}{4}$ and $\frac{2}{3}$. What is the probability that the target is hit by at least 2 persons.

Answers

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| 1. $\frac{6}{7}$ | 5. $\frac{19}{24}$ |
| 2. $\frac{60}{119}$ | 6. $\frac{1}{3003}$ |
| 3. $\frac{4}{5}$ | 7. $\frac{5}{6}$ |
| 4. $\frac{5}{9}$ | |