

Probability Workshop



Basics handout - Cetking.com/probability / Yellow book – Advance level / Green book – Super advance

Dice

- Find the probability of getting sum of 9 when two dice are rolled simultaneously?
a. $5/36$ b. $3/36$ c. $4/36$ d. $6/36$ e. $2/36$
- Find the probability of getting sum of 6 when three dice are rolled simultaneously?
a. $5/36$ b. $3/216$ c. $10/216$ d. $5/216$ e. None of these
- Find the probability of getting sum of 10 when three dice are rolled simultaneously?
a. $5/36$ b. $3/8$ c. $1/8$ d. $5/8$ e. $7/8$
- If 4 dice are rolled, what is the probability that the sum of them is 6? a. $5/36$ b. $3/81$ c. $1/81$ d. $5/81$ e. Non
- If two dice are rolled, what is the probability that first dices shows odd and second one even number?
a. $5/36$ b. $3/81$ c. $1/9$ d. $5/81$ e. $1/4$

Coins

- 4 coins are tossed simultaneously. What is the probability of getting 2 heads?
a. $5/36$ b. $3/8$ c. $1/8$ d. $5/8$ e. $7/8$
- What is the probability that when a coin is tossed 5 times, we will get exactly 4 heads?
a. $5/32$ b. $3/8$ c. $1/8$ d. $5/8$ e. $7/8$
- A fair coin is tossed 5 times. What is the probability of getting at least three heads on consecutive tosses?
a. $2/16$ b. $1/2$ c. $7/24$ d. $5/16$ e. $15/32$

Match

- Odds that male wins an argument is 10% and that of his Female is 60%. Find the probability of BF winning an argument against his GF?
a. 10% b. 25% c. 30% d. 20% e. 15%
- Odds of A hitting the target is 1:4 and B hitting the target is 2:3. Find the probability the hit is alternate.
a. 10% b. 25% c. 30% d. 20% e. None of these
- Five horses are competing in the race. Probability of A winning is 10%, B 20%, C 15%, D 18% and E is 21%. Find the probability that A or B will win the race?
a. 10% b. 25% c. 30% d. 20% e. 15%

Probability Misc:

- Probability that my DoB will be on non leap year Aug 20th? a. $5/23$ b. $3/73$ c. $4/126$ d. $1/365$ e. None

- In a box of 20 bulbs, two are defective. What is the probability of choosing 2 bulbs that are not defective?
a. $5/36$ b. $3/36$ c. $4/36$ d. $6/36$ e. None of these

- 3 students are selected from a School with total of 1000 students. The probability that these three students will have identical date and month of their birth is
a. $3/44$ b. $1/44$ c. $37/44$ d. $5/16$ e. None of these

Balls

- A basket contains 4 red, 5 blue and 3 green marbles. If two marbles are drawn randomly, what is the probability that both are red?
a. $4/12$ b. $1/11$ c. $2/11$ d. $5/16$ e. $1/2$
- A basket contains 4 red, 5 blue and 3 green marbles. If two marbles are drawn randomly, what is the probability that both are blue or both are green?
a. $8/12$ b. $1/11$ c. $2/11$ d. $5/16$ e. $13/66$

- A basket contains 4 red, 5 blue and 3 green marbles. If three marbles are drawn randomly, what is the probability that atleast one is blue?
a. $3/44$ b. $1/44$ c. $37/44$ d. $5/16$ e. None of these

- A basket contains 4 red, 5 blue and 3 green marbles. If three marbles are drawn randomly, what is the probability that two are red and one is green?
a. $3/44$ b. $1/44$ c. $37/44$ d. $3/110$ e. $9/110$

- Bag A contains 4 red and 6 blue balls while Bag B contains 6 red and 4 blue balls. Find the probability of selecting a red ball?
a. $3/44$ b. $1/44$ c. $37/44$ d. $5/16$ e. $1/2$

- Bag A contains 4 red and 6 blue balls while Bag B contains 6 red and 4 blue balls. One ball is taken from A and put in B. Find the probability of selecting a red ball from bag B?
a. $3/44$ b. $1/44$ c. $37/44$ d. $5/16$ e. None of these

Cards

- Two cards are drawn together from a pack of 52 cards. The probability that both are suit of heart?
a. $3/44$ b. $1/44$ c. $37/44$ d. $5/16$ e. None of these
- Two cards are drawn together from a pack of 52 cards. The probability that one is a spade and one is a heart?
a. $3/44$ b. $1/44$ c. $37/44$ d. $5/16$ e. None of these