**Probability – Easy**

1. **There are 15 boys and 10 girls in a class. If three students are selected at random, what is the probability that 1 girl and 2 boys are selected?**

A. 1/40

B. 1/ 2

C. 21/46

D. 7/ 41

E. None of these

1. **Two friends Harish and Kalyan appeared for an exam. Let A be the event that Harish is selected and B is the event that Kalyan is selected. The probability of A is 2/5 and that of B is 3/7. Find the probability that both of them are selected.**

A. 35/36

B. 5/35

C. 5/12

D. 6/35

E. None of these

1. **A card is drawn from a well shuffled pack of 52 cards. What is the probability of getting queen or club card?**

A. 17/52

B. 15/52

C. 4/13

D. 3/13

E. None of these

1. **16 persons shake hands with one another in a party. How many shake hands took place?**

A. 124

B. 120

C. 165

D. 150

E. None of these

1. **2 dice are thrown simultaneously. What is the probability that the sum of the numbers on the faces is divisible by either 3 or 5?**

A. 7/36

B. 19/36

C. 9/36

D. 2/7

E. None of these

# PROBABILITY PRACTICE PROBLEMS

##### **1. On a six-sided die, each side has a number between 1 and 6. What is the probability of throwing a 3 or a 4?**

1. 1 in 6
2. 1 in 3
3. 1 in 2
4. 1 in 4

##### **2. Three coins are tossed up in the air, one at a time. What is the probability that two of them will land heads up and one will land tails up?**

1. 0
2. 1/8
3. 1/4
4. 3/8

##### **3. A two-digit number is chosen at random. What is the probability that the chosen number is a multiple of 7?**

1. 1/10
2. 1/9
3. 11/90
4. 12/90
5. 13/90

##### **4. A bag contains 14 blue, 6 red, 12 green, and 8 purple buttons. 25 buttons are removed from the bag randomly. How many of the removed buttons were red if the chance of drawing a red button from the bag is now 1/3?**

1. 0
2. 1
3. 3
4. 5
5. 6

##### **5. There are 6 blue marbles, 3 red marbles, and 5 yellow marbles in a bag. What is the probability of selecting a blue or red marble on the first draw?**

1. 1/3
2. 4/7
3. 8/14
4. 9/14
5. 11/14

##### **6. Using a six-sided die, Carlin has rolled a six on each of 4 successive tosses. What is the probability of Carlin rolling a six on the next toss?**

1. 1/2
2. 1/4
3. 1/6
4. 1/30
5. 1/3125

##### **7. A regular deck of cards has 52 cards. Assuming that you do not replace the card you had drawn before the next draw, what is the probability of drawing three aces in a row?**

1. 1 in 52
2. 1 in 156
3. 1 in 2000
4. 1 in 5525
5. 1 in 132600

##### **8. An MP3 player is set to play songs at random from the fifteen songs it contains in memory. Any song can be played at any time, even if it is repeated. There are 5 songs by Band A, 3 songs by Band B, 2 by Band C, and 5 by Band D. If the player has just played two songs in a row by Band D, what is the probability that the next song will also be by Band D?**

1. 1 in 5
2. 1 in 3
3. 1 in 9
4. 1 in 27
5. Not enough data to determine.

##### **9. Referring again to the MP3 player described in Question 8, what is the probability that the next two songs will both be by Band B?**

1. 1 in 25
2. 1 in 3
3. 1 in 5
4. 1 in 9
5. Not enough data to determine.

##### **10. If a bag of balloons consists of 47 white balloons, 5 yellow balloons, and 10 black balloons, what is the approximate likelihood that a balloon chosen randomly from the bag will be black?**

1. 19%
2. 16%
3. 21%
4. 33%

##### **11. In a lottery game, there are 2 winners for every 100 tickets sold on average. If a man buys 10 tickets, what is the probability that he is a winner?**

1. 21.5%
2. 20%
3. 18.3%
4. 2%