

3 Ants and Triangle

There are 3 ants sitting on three corners of a triangle. All ants randomly pick a direction and start moving along the edge of the triangle. What is the probability that any two ants collide?

Heaven and Hell

There are two gates, one to hell and the other to heaven. Two gatekeepers, one for each gate. One of them always speaks the truth and the other always lies but you don't know which one guards which gate. You are allowed only one question and you need to find out the gate to heaven.

What is the question?

10 Coins Puzzle

You are blindfolded and 10 coins are placed in front of you on the table. You are allowed to touch the coins but can't tell which way up they are by feel. You are told that there are 5 coins head up, and 5 coins tails up but not which ones are which. Can you make two piles of coins each with the same number of heads up? You can flip the coins any number of times.

Mislabeled Jars

There are 3 jars, namely, A, B, C. All of them are mislabeled. Following are the labels of each of the jars: A: Candies B: Sweets C: Candies and Sweets (mixed in a random proportion) You can put your hand in a jar and pick only one eatable at a time. Tell the minimum number of eatable(s) that has/have to be picked in order to label the jars correctly.

50 red marbles and 50 blue marbles

Give two boxes B1 and B2 one has 50 red marbles and the other has 50 blue marbles. A ball is selected randomly from any of the boxes and the task is to maximize the probability of selecting a red ball, by reshuffling marbles in both boxes.

Direction: Read the given information carefully and answer the questions given beside:

Six boxes are placed one above the other in a rack. The lowermost rack is numbered as one and above is two and so on. Each box has different number of balls. Box P is placed immediately above Box R. Only one box is placed between the boxes having 175 and 165 balls. Box U has 210 balls. Box L is placed above Box M but neither of the boxes is placed in the topmost rack. Box which has 119 balls is placed immediately above the box which has 190 balls. Three boxes are placed between Box R and the box has 180 balls. Box which has 175 balls is placed immediately above the box, which has 180 balls. Two boxes are placed between the box which has 190 balls and Box K.

1. What is the average number of balls in the boxes, which are placed in even numbered racks?
A. 168 balls B. 158 balls C. 153 balls D. 164 balls E. None of these

2. Which among the following statements is true?
A. Only one box is placed between Box M and the box which has 175 balls.
B. Box U and the box which has 165 balls are placed not adjacent to each other.
C. The box which has 180 balls is placed immediately above the box which has 165 balls.
D. No boxes are placed between the box P and Box L.
E. None is true

3. In certain way Box P is related to 119 balls, Box L is related to 165 balls and in same way, which among the following box is related to 180 balls?
A. Box M B. Box U C. Box R D. Box P E. None of these

4. If box O is placed immediate above of box P then box O is placed in which number rack?
A. Fifth B. Ninth C. Seventh D. Sixth E. None of these

5. Box K has how many balls in it ?
A. 175 B. 119 C. 190 D. 210 E. None of these