

Coin Sequence TT-HT

Borel — Sample Questions

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- ▶ Start flipping the Borel coin.

Note down the results in the order they appear.

Stop when one of the two sequences appear:

[Heads - Tails] or [Tails - Tails].

Will the sequence [Heads - Tails] appear first?

Coin Sequence TT-TH

- ▶ Start flipping the Borel coin.

Note down the results in the order they appear.

Stop when one of the two sequences appear:

[Tails - Tails] or [Tails - Heads].

Will the sequence [Tails - Tails] appear first?

Coin Stop 2H MoreH

- ▶ Keep tossing the Borel coin,
noting the total number of heads and tails you get.
Stop when you reach two heads.

Will you have more heads than tails when you stop?

Coin Row 8 4Row

- ▶ Flip the Borel coin eight times.
Note the results in the order they appear.

Will you get the same result at least four times in a row?

Coin Distribution 4 H2

- ▶ Flip the Borel coin four times.
Note the results.

Will you get Heads exactly two times?

Dice Row D6x8 x2

- ▶ Roll a 6-sided die eight times.
Note the results in the order they appear.

Will some number appear at least two times in a row?

Dice Stop D6More1 3or4

- ▶ Keep rolling a 6-sided die as long as the outcome is above 1.
Stop when you roll a 1.

Will a 3 or a 4 have appeared before you stop?

Dice Sum D6x3D10D20D30 40

- ▶ Roll three 6-sided dice, a 10-sided die, a 20-sided die and a 30-sided die.

Will the sum of the results be at least 40?

Dice Increasing D10D6

- ▶ Roll a 10-sided die. Then roll a 6-sided die.

Will the two results be in increasing order?

Dice Increasing D6D10D20

- ▶ Roll a 6-sided die.
Then roll a 10-sided die.
Then roll a 20-sided die.

Will the three results be in strictly increasing order?

Dice MaxMin D6x3D20 More10

- ▶ Roll three 6-sided dice and a 20-sided die.
What is the minimum value you got and what is the maximum?

Will the difference between these two values be greater than 10?

Dice Consecutive D6x3 2

- ▶ Roll three 6-sided dice.

Will there be two consecutive numbers among the results?

Example: if you roll [4, 1, 5] the answer is Yes.

Dice Combination D6x3 2orMore10

- ▶ Roll three 6-sided dice.

Will there be a combination of at least two dice that forms exactly sum 10?

Pouches Single B6R1 4 R1

- ▶ Prepare a pouch with six blue balls and one red ball.
Take out four balls at random.

Will the red ball be taken out?

Pouches Single B2R2 2 R2

- ▶ Prepare a pouch with two blue balls and two red balls.
Take out two balls at random.

Will both of them be red?

Pouches Single B6R3 2 RM1

- ▶ Prepare a pouch with six blue balls and three red balls.
Draw two balls at random.

Will at least one of them be red?

Pouches Double 5-2,2-5

- ▶ Pouch 1 has five blue balls and two red balls, and Pouch 2 has two blue and five red.
Shuffle the pouches and draw one ball at random.

Given the colour of the ball, was the Pouch 1 with five blue balls selected?

Pouches Tripple B1R1,B2,R2 Same

- ▶ Prepare three pouches with one blue ball and one red ball, two blue balls, and one red ball and one blue ball, respectively.
Shuffle the pouches and draw one ball

Is the ball left in that pouch of the same color?