

DICE SNAKE



How likely is that?

What to do

- Roll all the dice and line them up like a snake.
- Choose one end of the dice snake. This die is the snake's head.
- Read the number on it and count forward by exactly that many dice.
- From there, keep counting in the same way until you reach the end of the snake.
- If you don't land exactly on the last die:
- Remove the extra dice.
- Roll the "snake's head," read its number, and repeat the counting process, starting with that die.
- Where do you end up?

IF YOU WANT TO KNOW MORE



What Do You Notice?

Although the numbers you roll seem random, you usually end up on exactly the same die at the end of the snake.



The Science Behind It

At each step, you decide how many positions to move forward. This creates fixed paths through the snake that repeatedly cross and converge. Many paths eventually lead to the same endpoints. With each round, the probability of landing on one of these “gathering points” increases. This behavior can be described mathematically and belongs to probability theory, the branch of mathematics that studies randomness and probabilities. Although each roll is random, the interaction of many steps creates a recognizable structure. The exhibit shows that randomness is not always completely chaotic and can produce surprising patterns.