

Part 1 – The Problem - Aanswers

Solution 1

According to Shannon's intuition, if all the events have the same probability (like throwing a die or flipping a coin) the surprise will grow with the number of the events. B is the right answer.

Solution 2

According to Shannon's intuition, small changes in the probabilities cause small changes in the amount of surprise. C is the right answer. As we will learn in the coming clips, the entropy of the biased coin is 0.999997. Very close to 1.

Solution 3

According to Shannon's intuition, if we break a choice into some smaller steps, the sum of surprises caused by all the steps will be equal to the surprise caused by the whole choice. So, the right answer is A.