

CHAPTER 13: FROM RANDOMNESS TO PROBABILITY

Probability: the long-run _____

Theoretical Probability:

Independent: Outcome of 1 trial does _____ the outcome of another.

Law of Large Numbers:

5 Rules for Formal Probability

1. Probability is
2. All Possible outcomes
3. Complement Rule

4. Addition Rule

5. Multiplication Rule

Suppose that 40% of cars in your area are manufactured in the United States, 30% in Japan, 10% in Germany, and 20% in other countries. If cars are selected at random, find each probability.

1. The car is not U.S. made
2. The car is made in Japan or Germany
3. Two cars in a row are made in Japan
4. None of 3 cars are from Germany
5. At least one of 3 cars is US made
6. The first Japanese car is the 4th one you see