

Math 310 - Dr. Miller - Activity #20: Basic Theoretical Probability

An experiment consists of choosing ONE number from the list 11, 12, 13, 14, \dots , 30.

1. How many outcomes are in the uniform sample space for this experiment?
2. List the outcomes for which the number is at least 25; what is the probability of this event?
3. List the outcomes for which the number is at most 25; what is the probability of this event?
4. What is the probability that the number does not exceed 15? (List to be sure.)
5. What is the probability that the number is no less than 15? (List to be sure.)
6. What is the probability that the letter is at most 17 and is odd? (List to be sure.)
7. What is the probability that the letter is at most 17 or is odd? (List to be sure.)
8. What is the probability that the letter is at least 21 and prime? (List to be sure.)
9. What is the probability that the letter is at least 21 or prime? (List to be sure.)