13-3

Practice

Probability and Odds

A kitchen drawer contains 7 forks, 4 spoons, and 5 knives. Three are selected at random. Find each probability.

1. P(3 forks)

2. P(2 forks, 1 knife)

3. P(3 spoons)

4. P(1 fork, 1 knife, 1 spoon)

A laundry bag contains 5 red, 9 blue, and 6 white socks. Two socks are selected at random. Find each probability.

5. P(2 red)

6. P(2 blue)

7. P(1 red, 1 blue)

8. P(1 red, 1 white)

Sharon has 8 mystery books and 9 science-fiction books. Four are selected at random. Find each probability.

9. P(4 mystery books)

10. P(4 science-fiction books)

11. P(2 mysteries, 2 science-fiction)

12. P(3 mysteries, 1 science-fiction)

From a standard deck of 52 cards, 5 cards are drawn. What are the odds of each event occurring?

13. 5 aces

14. 5 face cards

15. ***Meteorology*** A local weather forecast states that the chance of sunny weather on Wednesday is 70%. What are the odds that it will be sunny on Wednesday?