

Practice 9-4

Compound Events

Each letter in the word MASSACHUSETTS is written on a card. The cards are placed in a basket. Find each probability.

1. What is the probability of selecting two S's if the first card is replaced before selecting the second card?

You roll a fair number cube. Find each probability.

2. $P(3, \text{ then } 5)$

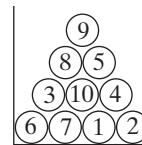
3. $P(2, \text{ then } 2)$

Four girls and eight boys are running for president or vice president of the Student Council. Find each probability.

4. Find the probability that two boys are elected.

5. Find the probability that two girls are elected.

A box contains ten balls, numbered 1 through 10. Marisha draws a ball. She records its number and then returns it to the bag. Then Penney draws a ball. Find each probability.



6. $P(9, \text{ then } 3)$

7. $P(\text{even, then odd})$

8. $P(\text{odd, then } 2)$

9. $P(\text{the sum of the numbers is } 25)$
