

Determine if the scenario involves mutually exclusive events.

- 1) A litter of kittens consists of three gray kittens, two black kittens, and three mixed-color kittens. You randomly pick one kitten. The kitten is gray or mixed-color.
- 2) A box of chocolates contains four milk chocolates, three dark chocolates, and three white chocolates. You randomly select a chocolate. It is a milk chocolate or a dark chocolate.
- 3) You roll a fair six-sided die. The die shows an odd number or a number greater than one.
- 4) A bag contains five white jerseys numbered one to five. The bag also contains five red jerseys numbered one to five. You randomly pick a jersey. It is white or has a number less than four.

Find the probability.

- 5) A basket contains three apples, three peaches, and three pears. You randomly select a piece of fruit. What is the probability you select an apple OR a peach?
- 6) A box of chocolates contains five milk chocolates and four dark chocolates. Three of the milk chocolates and three of the dark chocolates have peanuts inside. You randomly select and eat a chocolate. What is the probability it is a milk chocolate OR has peanuts inside?
- 7) A cooler contains thirteen sports drinks: six lemon-lime and seven orange. Two of the lemon-lime and five of the orange drinks are cold. The others are still warm. You randomly grab a bottle. What is the probability you selected a lemon-lime or a warm drink?
- 8) A jar contains six balls, numbered from one to six. You randomly pick a ball. What is the probability you pick a ball numbered two or five?