

Probability #5

Find the probability.

- 1) A cooler contains twelve bottles of sports drink: four lemon-lime flavored, three orange flavored, and five fruit-punch flavored. You randomly grab a bottle. It is a lemon-lime or an orange.
- 2) A box of chocolates contains seven milk chocolates and four dark chocolates. Four of the milk chocolates and two of the dark chocolates have peanuts inside. You randomly select and eat a chocolate. It is a milk chocolate or has no peanuts inside.
- 3) A bag contains four red marbles, five blue marbles, and four yellow marbles. You randomly pick a marble. The marble is red or blue.
- 4) There are seven nickels and seven dimes in your pocket. Two of the nickels and two of the dimes are Canadian. The others are US currency. You randomly select a coin from your pocket. It is a nickel or is Canadian currency.
- 5) A bag contains six yellow tennis balls numbered one to six. The bag also contains five green tennis balls numbered one to five. You randomly pick a tennis ball. It is yellow or has a number less than two.
- 6) A magazine contains fifteen pages. You open to a random page. The page number is two or six.

- 7) A bag contains six yellow jerseys numbered one to six. The bag also contains four purple jerseys numbered one to four. You randomly pick a jersey. It is purple or has a number greater than three.
- 8) A cooler contains ten sports drinks: six lemon-lime and four orange. Four of the lemon-lime and three of the orange drinks are cold. The others are still warm. You randomly grab a bottle. It is orange flavored or cold.
- 9) A box contains six red playing cards numbered one to six. The box also contains four black playing cards numbered one to four. You randomly pick a playing card. It is red or has a number greater than three.
- 10) A litter of kittens consists of two gray kittens, two black kittens, and two mixed-color kittens. You randomly pick one kitten. The kitten is gray or mixed-color.
- 11) There are five nickels, four dimes, and three quarters in your pocket. You randomly pick a coin. It is a nickel or a dime.
- 12) You roll a fair six-sided die. The die shows a three or a five
- 13) A bag contains three yellow jerseys numbered one to three. The bag also contains five purple jerseys numbered one to five. You randomly pick a jersey. It is yellow or has an odd number.
- 14) A bag contains four red marbles, five blue marbles, and three yellow marbles. You randomly pick a marble. The marble is red or blue.

Answers to Probability #5

1) $\frac{7}{12} \approx 0.583$

2) $\frac{9}{11} \approx 0.818$

3) $\frac{9}{13} \approx 0.692$

4) $\frac{9}{14} \approx 0.643$

5) $\frac{7}{11} \approx 0.636$

6) $\frac{2}{15} \approx 0.133$

7) $\frac{7}{10} = 0.7$

8) $\frac{4}{5} = 0.8$

9) $\frac{7}{10} = 0.7$

10) $\frac{2}{3} \approx 0.667$

11) $\frac{3}{4} = 0.75$

12) $\frac{1}{3} \approx 0.333$

13) $\frac{3}{4} = 0.75$

14) $\frac{3}{4} = 0.75$