## Probability \#4

## Find the probability.

1) A bag contains three yellow tickets numbered one to three. The bag also contains four green tickets numbered one to four. You randomly pick a ticket. It is yellow or has an even number.
2) A litter of kittens consists of one gray female, three gray males, two black females, and one black male. You randomly pick one kitten. The kitten is gray or female.
3) A box contains six red playing cards numbered one to six. The box also contains three black playing cards numbered one to three. You randomly pick a playing card. It is black or has a number greater than four.
4) A box contains three red playing cards numbered one to three. The box also contains five black playing cards numbered one to five. You randomly pick a playing card. It is red or has an odd number.
5) A bag contains five yellow tickets numbered one to five. The bag also contains five green tickets numbered one to five. You randomly pick a ticket. It is green or has a number less than two.
6) A basket contains six apples and five peaches. One of the apples and three of the peaches are rotten. You randomly pick a piece of fruit. It is rotten or it is a peach.
7) A box of chocolates contains four milk chocolates and six dark chocolates. One of the milk chocolates and one of the dark chocolates have peanuts inside. You randomly select and eat a chocolate. It is a dark chocolate or has no peanuts inside.
8) A cooler contains twelve sports drinks: five lemon-lime and seven orange. Four of the lemon-lime and one of the orange drinks are cold. The others are still warm. You randomly grab a bottle. It is lemon-lime flavored or warm.
9) A cooler contains eleven sports drinks: seven lemon-lime and four orange. Five of the lemon-lime and three of the orange drinks are cold. The others are still warm. You randomly grab a bottle. It is lemon-lime flavored or cold.
10) 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 a number less than four.
11) A bag contains six yellow tennis balls numbered one to six. The bag also contains three green tennis balls numbered one to three. You randomly pick a tennis ball. It is green or has a number greater than five.
12) A jar contains six orange marbles numbered one to six. The jar also contains five green marbles numbered one to five. You randomly pick a marble. It is green or has a number greater than five.
13) A litter of kittens consists of three gray females, one gray male, three black females, and one black male. You randomly pick one kitten. The kitten is black or female.
14) A bag contains five yellow tennis balls numbered one to five. The bag also contains three green tennis balls numbered one to three. You randomly pick a tennis ball. It is yellow or has a number less than two.

Answers to Probability \#4

1) $\frac{5}{7} \approx 0.714$
2) $\frac{3}{4}=0.75$
3) $\frac{6}{7} \approx 0.857$
4) $\frac{3}{5}=0.6$
5) $\frac{5}{9} \approx 0.556$
6) $\frac{6}{11} \approx 0.545$
7) $\frac{9}{10}=0.9$
8) $\frac{4}{9} \approx 0.444$
9) $\frac{11}{12} \approx 0.917$
10) $\frac{6}{11} \approx 0.545$
11) $\frac{10}{11} \approx 0.909$
12) $\frac{7}{8}=0.875$
13) $\frac{3}{4}=0.75$
14) $\frac{3}{4}=0.75$
