## Algebra 2 Name © 2017 Kuta Software LLC. All rights reserved. Probability #4

## Find the probability.

- 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.
- 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.

- 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.
- 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.

- 5) 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.
- 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.
- 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.

- 9) 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.
- 10) 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.

- 11) 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.
- 12) 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.

- 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 a number less than four.
- 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)  $\frac{3}{4} = 0.75$