Algebra 2   Name_____

Probability #2

Find the probability.

1) A spinner has an equal chance of landing on each of its four numbered regions. After spinning, it lands in region two or three.

2) 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.

3) A cooler contains twelve bottles of sports drink: four lemon-lime flavored, four orange flavored, and four fruit-punch flavored. You randomly grab a bottle. It is a lemon-lime or an orange.

4) 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.

5) A spinner has an equal chance of landing on each of its six numbered regions. After spinning, it lands in region five or six.

6) A litter of kittens consists of three gray kittens, two black kittens, and two mixed-color kittens. You randomly pick one kitten. The kitten is gray or mixed-color.

7) A box of chocolates contains four milk chocolates, five dark chocolates, and five white chocolates. You randomly select a chocolate. It is a milk chocolate or a dark chocolate.

8) A box of chocolates contains five milk chocolates, three dark chocolates, and five white chocolates. You randomly select a chocolate. It is a milk chocolate or a dark chocolate.

9) A box of chocolates contains five milk chocolates, four dark chocolates, and four white chocolates. You randomly select a chocolate. It is a milk chocolate or a dark chocolate.

10) A basket contains four apples, three peaches, and five pears. You randomly select a piece of fruit. It is an apple or a peach.

11) You roll a fair six-sided die. The die shows a one or a two

12) A basket contains three apples, five peaches, and five pears. You randomly select a piece of fruit. It is an apple or a peach.

13) There are eleven shirts in your closet, three blue, five green, and three red. You randomly select one to wear. It is blue or green.

14) There are four nickels, four dimes, and three quarters in your pocket. You randomly pick a coin. It is a nickel or a dime.

15) You roll a fair six-sided die. The die shows a two or a six

16) There are five nickels, three dimes, and four quarters in your pocket. You randomly pick a coin. It is a nickel or a dime.

Answers to Probability #2

1) $\dfrac{1}{2} = 0.5$

2) $\dfrac{3}{4} = 0.75$

3) $\dfrac{2}{3} \approx 0.667$

4) $\dfrac{7}{12} \approx 0.583$

5) $\dfrac{1}{3} \approx 0.333$

6) $\dfrac{5}{7} \approx 0.714$

7) $\dfrac{9}{14} \approx 0.643$

8) $\dfrac{8}{13} \approx 0.615$

9) $\dfrac{9}{13} \approx 0.692$

10) $\dfrac{7}{12} \approx 0.583$

11) $\dfrac{1}{3} \approx 0.333$

12) $\dfrac{8}{13} \approx 0.615$

13) $\dfrac{8}{11} \approx 0.727$

14) $\dfrac{8}{11} \approx 0.727$

15) $\dfrac{1}{3} \approx 0.333$

16) $\dfrac{2}{3} \approx 0.667$