

- 7) You flip a coin and then roll a fair six-sided die. What is the probability the coin lands heads-up and the die shows an even number?

P(heads and even number) _____

- 8) A bag contains three red marbles and three blue marbles. Another bag contains five green marbles and eight yellow marbles. You randomly pick one marble from each bag. What is the probability that one marble is blue and one marble is yellow?

P(blue and yellow) _____

- 9) A spinner has an equal chance of landing on each of its eight numbered regions. After spinning, find the probability that it lands in region two or eight. (Determine if it is mutually exclusive first)

- 10) A magazine contains twelve pages. You open to a random page. Find the probability that the page number is one or seven. (Determine if it is mutually exclusive first)

- 11) A cooler contains ten sports drinks: four lemon-lime and six orange. Three of the lemon-lime and three of the orange drinks are cold. The others are still warm. You randomly grab a bottle. What is the probability it is orange flavored or warm? (Determine if it is mutually exclusive first)

- 12) A jar contains four blue marbles numbered one to four. The jar also contains six red marbles numbered one to six. You randomly pick a marble. What is the probability it is red or has a number greater than two? (Determine if it is mutually exclusive first)

Quiz Lesson 9.7 Quiz Review

Date _____ Hour _____

Determine whether the scenario involves independent or dependent events.

- 1) A spinner has an equal chance of landing on each of its eight numbered regions. You spin twice. The first spin lands in region three and the second spin lands in region seven.

Independent

- 2) There are eleven shirts in your closet, four blue and seven green. You randomly select one to wear on Monday and then a different one on Tuesday. You wear blue shirts both days.

Dependent

- 3) You flip a coin and then roll a fair six-sided die. The coin lands heads-up and the die shows an even number.

Independent

- 4) A box of chocolates contains six milk chocolates and five dark chocolates. You randomly pick a chocolate and eat it. Then you randomly pick another piece. Both pieces are milk chocolate.

Dependent

Find the probability.

- 5) There are thirteen shirts in your closet, seven blue and six green. You randomly select one to wear on Monday and then a different one on Tuesday. What is the probability you wear a blue shirt on Monday and a green shirt on Tuesday?

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P(blue and green): _____

$$\frac{7}{26} \approx 0.269$$

- 6) You flip a coin twice. What is the probability the first flip lands tails-up and the second flip lands heads-up?

P(heads and tails) _____

$$\frac{1}{4} = 0.25$$

- 7) You flip a coin and then roll a fair six-sided die. What is the probability the coin lands heads-up and the die shows an even number?

P(heads and even number) _____

$$\frac{1}{4} = 0.25$$

- 8) A bag contains three red marbles and three blue marbles. Another bag contains five green marbles and eight yellow marbles. You randomly pick one marble from each bag. What is the probability that one marble is blue and one marble is yellow?

P(blue and yellow) _____

$$\frac{4}{13} \approx 0.308$$

- 9) A spinner has an equal chance of landing on each of its eight numbered regions. After spinning, find the probability that it lands in region two or eight. (Determine if it is mutually exclusive first)

$$\frac{1}{4} = 0.25$$

- 10) A magazine contains twelve pages. You open to a random page. Find the probability that the page number is one or seven. (Determine if it is mutually exclusive first)

$$\frac{1}{6} \approx 0.167$$

- 11) A cooler contains ten sports drinks: four lemon-lime and six orange. Three of the lemon-lime and three of the orange drinks are cold. The others are still warm. You randomly grab a bottle. What is the probability it is orange flavored or warm? (Determine if it is mutually exclusive first)

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

- 12) A jar contains four blue marbles numbered one to four. The jar also contains six red marbles numbered one to six. You randomly pick a marble. What is the probability it is red or has a number greater than two? (Determine if it is mutually exclusive first)

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