## Name: \_\_\_\_

- 1. Which pair of events is dependent?
  - A. flipping a coin, then flip it again
  - B. rolling a fair cube, then rolling it again
  - C. spinning the arrow of a spinner, then rolling a fair cube
  - D. removing a card from a deck, then removing another one

- 2. Each event described below is performed randomly. Which is a dependent event?
  - A. From a bag of 10 marbles (4 red, 6 blue), Sam pulls a blue marble, puts it back, and then pulls a red marble.
  - B. On a spinner with 6 congruent sectors numbered 1 through 6, Greg first spins a 4 and then a 2 on the second spin.
  - C. From a pack of 20 cards, Jose picks 1 card, sets it aside, and then picks a matching card on his second try.
  - D. Monica tosses a fair coin two consecutive times, and it lands on heads both times.

## Date: \_\_\_\_

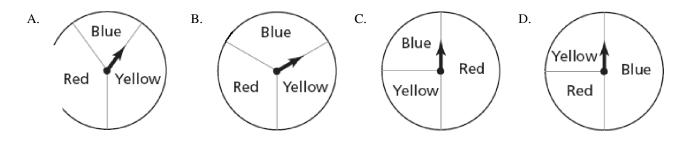
- 3. Which of the following is an example of independent events?
  - A. flipping a fair coin and rolling a six-sided number cube
  - B. selecting the order in which one picture will be taken of each of four friends by drawing their names out of a hat
  - C. selecting the order in which each member of a history class will present a speech to the rest of the class
  - D. selecting two different-flavored pieces of candy one piece at a time, from a bag containing four different flavors of candy

4. Six students in Mr. Salazar's math class conducted a probability experiment. Each student was asked to flip a quarter and spin the arrow on a colored spinner.

The results of the experiment are shown below.

John: Heads/Blue	Sally: Heads/Blue
Mary: Heads/Red	Zeke: Tails/Yellow
Paul: Tails/Blue	Jill: Tails/Blue

If the experimental results closely match the theoretical probability of the colored spinner, which of these is most likely the spinner that was used?



- 5. Which of the following is an example of dependent events?
  - A. flipping a fair coin twice and getting tails both times
  - B. choosing the starting player line-up for a basketball game
  - C. choosing two cards from a stack of colored cards, with replacement, and both cards are blue
  - D. rolling a 6-sided die 2 times and getting a 5 both times

- 6. Which pair of events is independent?
  - A. select a card from a deck and keep it; select another card
  - B. select a marble from a bag and keep it; select another marble
  - C. select a marble from a bag and put it back; select another marble
  - D. select a card from a deck and put it on a table; select another card

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Independent & Dependent Probability 8/27 09/01/2015

1. Answer:	D	
2. Answer:	С	
3. Answer:	А	
4. Answer:	D	
5. Answer:	В	
6. Answer:	С	