

CA Grade 6 Standard 6.SDAP.3.5

MULTIPLE CHOICE

- Given the following sets of events, which statement is correct?
 - Toss a coin. Then roll a number cube.
 - Select a card. Replace it. Then select another card.
 - I and II both describe dependent events.
 - I and II both describe independent events.
 - I describes independent events and II describes dependent events.
 - I describes dependent events and II describes independent events.
- Which of the following are dependent events?
 - Choose a necklace. Put it on. Choose another necklace.
 - Chop a tree down from the forest, then chop down another tree.
 - Both I and II describe dependent events.
 - Neither I nor II describe dependent events
 - Only I describes dependent events.
 - Only II describes dependent events.
- Which of the following describes independent events?
 - Pick a name from a list of girls, then pick a name from a list of boys.
 - Spin a spinner twice.
 - Only I describes independent events.
 - Only II describes independent events.
 - Both I and II describe independent events.
 - Neither I nor II describe independent events.
- Which of the following describes independent events?
 - Choose a set of earrings, put them on, then choose another set of earrings.
 - Draw a marble from a bag. Do not replace it. Draw another marble.
 - Pick a vegetable for a side dish, then pick a meat for a main course.
 - Pick a name from a hat. Do not replace it. Pick another name.

There are 4 red marbles, 5 blue marbles, 2 green marbles, and 4 yellow marbles in a bag.

- What is the probability of picking a blue marble from the bag, replacing it, then picking a red marble?
 - $\frac{3}{5}$
 - $\frac{1}{3}$
 - $\frac{4}{15}$
 - $\frac{4}{45}$

6. What is the probability of picking 2 yellow marbles from the bag?

A. $\frac{2}{35}$
B. $\frac{1}{7}$

C. $\frac{4}{15}$
D. $\frac{7}{19}$

7. What is the probability of picking a green marble from the bag, replacing it, then picking a yellow marble?

A. $\frac{8}{15}$
B. $\frac{4}{15}$

C. $\frac{2}{15}$
D. $\frac{8}{225}$

8. What is the probability of picking 2 green marbles from the bag?

A. $\frac{1}{105}$
B. $\frac{1}{15}$

C. $\frac{2}{15}$
D. $\frac{4}{15}$

9. Derrick rolled a number cube and flipped a coin. What is the probability that he rolls a 5 and the coin lands on heads?

A. $\frac{1}{24}$
B. $\frac{1}{12}$

C. $\frac{1}{8}$
D. $\frac{1}{6}$

10. Tanaka rolled 2 number cubes. What is the probability that he rolls a 3 with the first number cube and the rolls a number greater than 2 with the second number cube?

A. $\frac{1}{24}$
B. $\frac{1}{6}$

C. $\frac{1}{9}$
D. $\frac{1}{12}$