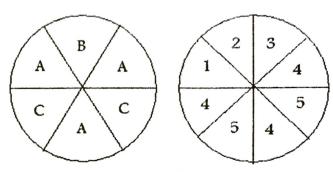
Refer to the spinners on the right to find the probability of each outcome. Write your answers as SIMPLIFIED fractions.

- 1) $P(A \text{ and } 1) = \frac{1}{16}$
- 2) P(C and 2)
- 3) P(B and 4) = 1
- 4) P(A and 3) =
- 5) P(C and 4): 18
- 6) P(B and 5)



7) P(a consonant and an odd number)



8) P(a vowel and a 5)

- 9) P(a consonant and a prime number)
- 10) P(a vowel and a number less than 4)

In a bag, there are 5 red marbles, 6 white marbles, 3 blue marbles, and 7 green marbles. Once a marble is selected, it is replaced. Find the probability of each outcome. Write your answers as fractions.

11) a blue marble and then a green marble

1 21

- 12) a blue marble and then a red marble
- 13) a red marble three times in a row

125

14) P(white, then blue, then white)

In a bag, there are 5 red marbles, 6 white marbles, 3 blue marbles, and 7 green marbles. Once a marble is selected, it is **NOT replaced**. Find the probability of each outcome. Write your answers as fractions.

15) 2 red marbles in a row

$$\frac{20}{420} = \frac{1}{21}$$

16) 2 green marbles in a row

17) P(blue, then red, then green)

18) P(blue, then blue, then blue)

For each game, find the indicated probability.

19) To win a carnival prize, you need to choose one of 3 doors labeled 1 through 3. Then you need to chose a red, yellow, or blue box behind each door. What is probability that the prize is in the blue or yellow box behind door 2?

24)

 $\frac{2}{9}$

Mr. and Mrs. Romero are expecting triplets. Suppose the chances of each child being a boy is equally likely. Write your answers as SIMPLIFIED fractions.

- 20) Create a tree diagram to see all possible combinations of the genders of their triplets.
- 21) Find the P(all three children will be boys)



- 22) Find the P(at least one is a boy and one is a girl)
- Find the P(two boys and one girl)

Find the P(at least two girls)

EXTRA CREDIT: Write your answers as simplified fractions.

- 25) Alana tosses 2 number cubes. She wins if she rolls doubles of any number. Find the probability that she will win.
- 26) Ming rolls a number cube, tosses a coin and chooses a card from two cards marked A or B. If an even number and heads appears, Ming wins no matter which cards is chosen. Otherwise Lashonda wins. Find P(Ming wins).