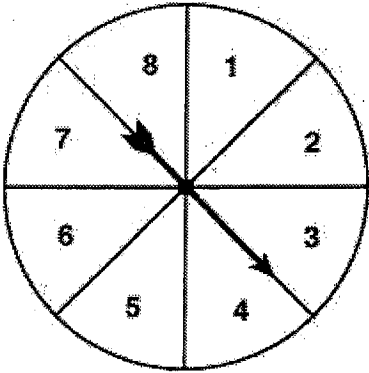


## Review Worksheet #23

### Section 1 - Multiple Choice

1)

What is the likelihood of the spinner landing on a number divisible by 3?



- (a) 13%
- (b) 25%
- (c) 38%
- (d) 50%

For questions 2-3

In a bag of marbles, there are 3 red marbles, 2 green marbles, 4 blue marbles and 1 white marble.

2)

What is the probability of picking a white marble, returning it to the bag, and then picking white again?

- (a)  $\frac{3}{20}$
- (b)  $\frac{6}{50}$
- (c)  $\frac{9}{100}$
- (d)  $\frac{8}{100}$

3)

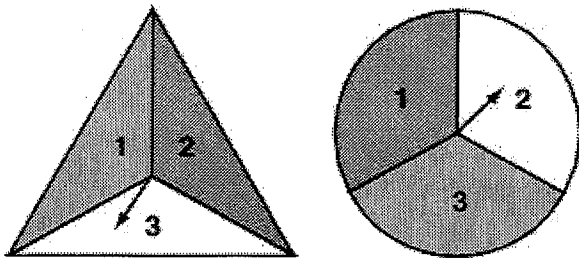
What is the probability of picking 2 spotted marbles?

- (a)  $\frac{0}{10}$
- (b)  $\frac{1}{10}$
- (c)  $\frac{2}{10}$
- (d)  $\frac{5}{10}$

For questions 4-6

### Game Spinners

A game requires you to spin two spinners. The arrow has an equal chance of landing in any of the numbered spaces.



4)

How many outcomes land on 2 different colors?

- (a) 3
- (b) 6
- (c) 9
- (d) 12

5)

What are the chances of both spinners landing on orange?

- (a) 1:6
- (b) 1:8
- (c) 1:9
- (d) 1:10

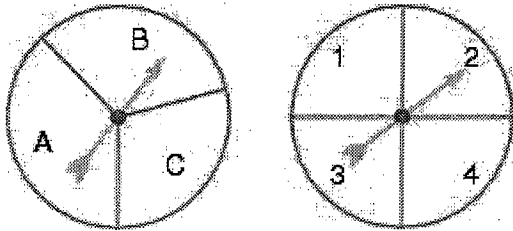
6)

In 20 spins on the triangular spinner, about how many times would you expect to land on the 1?

- (a) 3
- (b) 7
- (c) 12
- (d) 20

For question 7

My favorite board game uses the two spinners shown below.



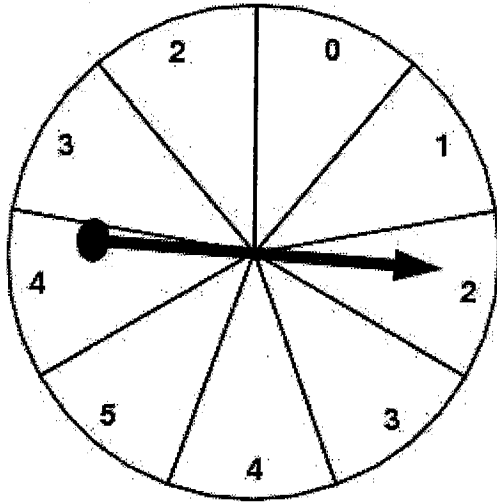
7)

What is the probability of spinning an A and a 1 or 2?

- (a) 1:3
- (b) 1:6
- (c) 1:11
- (d) 1:12

For question 8

Kaye and Maria are playing a board game where they spin a dial to determine how many spaces they can move. The dial has an equal chance of falling on each sector.



8)

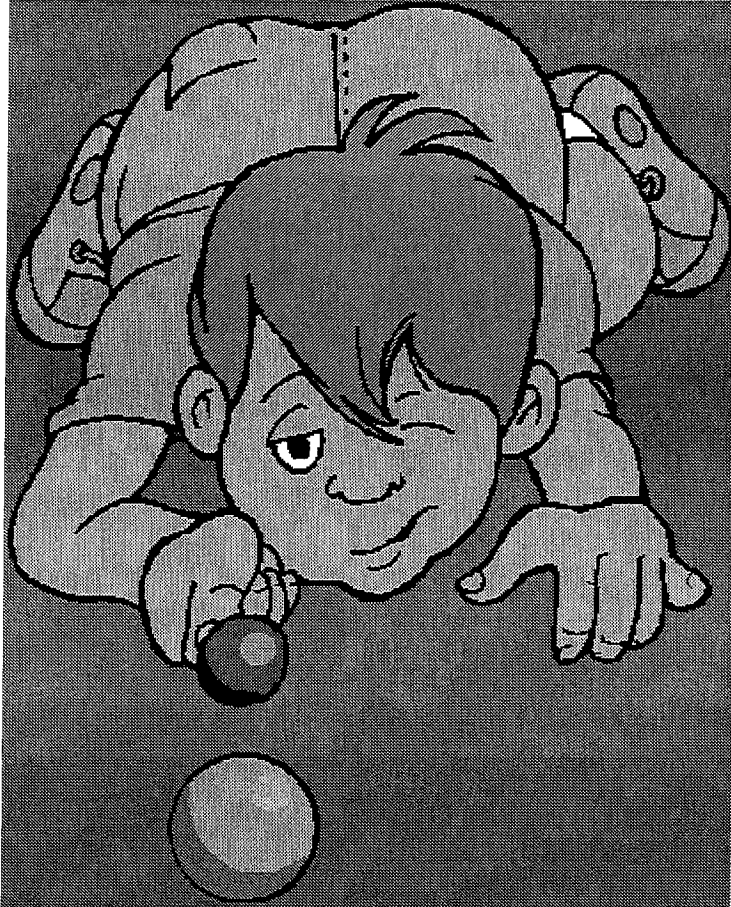
If Maria spins the dial, what is the probability of her moving less than three spaces?

- (a) 1:3
- (b) 4:9
- (c) 5:9
- (d) 7:9

For question 9

**Alejandro's Marbles**

At Alejandro's birthday party all of the kids were playing a game with marbles. Inside the bag, there were 3 purple marbles, 2 yellow marbles, 4 pink marbles, and 1 blue marble.



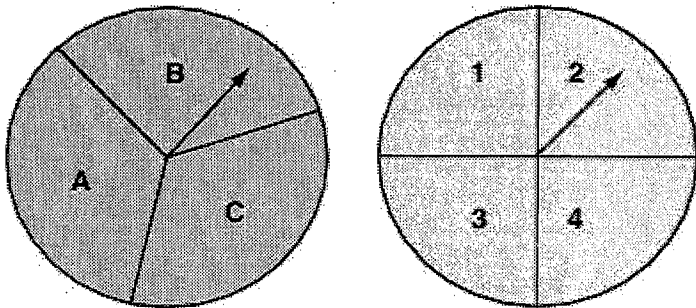
9)

Alejandro is picking from the bag of marbles first. What is the probability of Alejandro picking a pink marble, returning it to the bag and then picking pink again?

- (a) 0.01
- (b) 0.08
- (c) 0.1
- (d) 0.16

For questions 10-11

Alejandro had to make a game board for a class project. He decided to use 2 spinners in order to play his game.



10)

What is the probability of spinning an odd number?

- (a) 0.25
- (b) 0.33
- (c) 0.50
- (d) 0.70

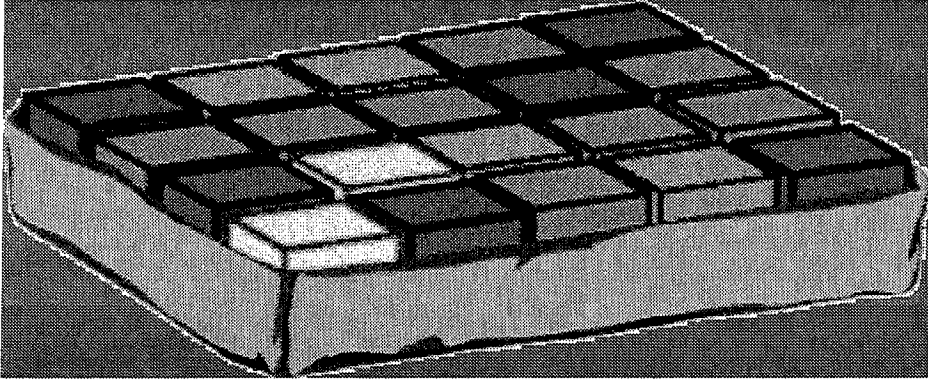
11)

When playing Alejandro's game, what is the probability of spinning a B and a 2 or 3?

- (a)  $\frac{1}{3}$
- (b)  $\frac{1}{6}$
- (c)  $\frac{1}{11}$
- (d)  $\frac{1}{12}$

For questions 12-13

In a box there are 6 red blocks, 4 green blocks, 8 blue blocks, and 2 white blocks.



12)

If Sally pulls the first block out of the box and it is light gray, how is that different from what was expected based on probability?

- (a) The most expected color on the first pick is black.
- (b) The most expected color on the first pick is white.
- (c) The least expected color on the first pick is light gray.
- (d) There is no way to guess which color would be picked first.

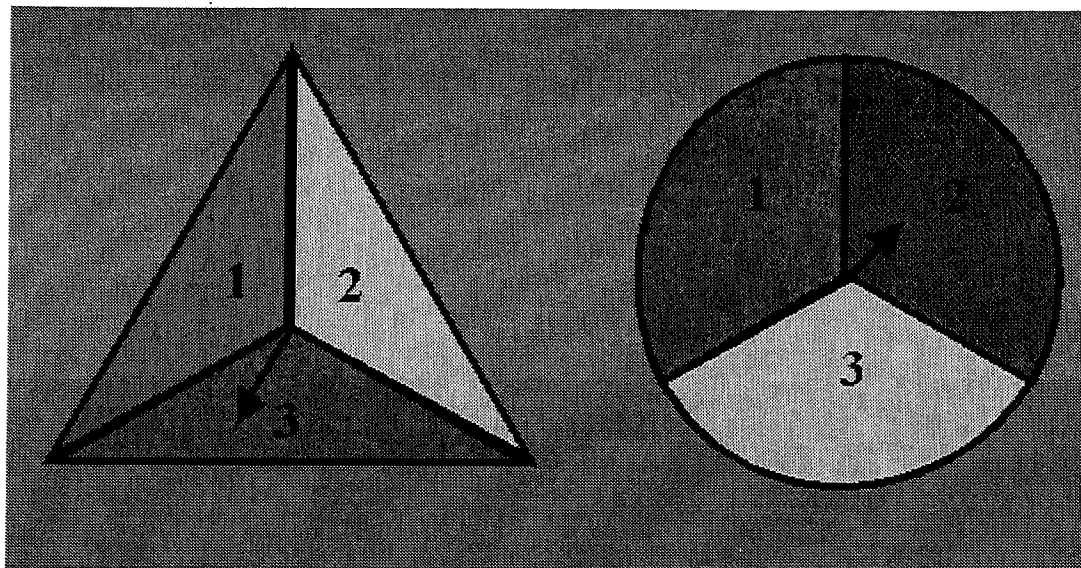
13)

What is the probability of pulling out a white block on the first pick and then another white block on the second pick, assuming the white block was not replaced after the first pick?

- (a)  $\frac{2}{20}$
- (b)  $\frac{1}{20}$
- (c)  $\frac{2}{380}$
- (d)  $\frac{1}{380}$

For questions 14-15

A game requires you to spin 2 spinners. The arrow has an equal chance of landing in any of the numbered spaces.



14)

In 50 spins on the circular spinner, about how many times would you expect to land on the 2?

- (a) 3
- (b) 17
- (c) 30
- (d) 50

15)

How many possible outcomes are there?

- (a) 3
- (b) 6
- (c) 9
- (d) 12

16) Early in the morning, Maryann reached into her sock drawer without looking. She knew she had 8 pairs of black socks, 10 pairs of white socks, and 4 pairs of red socks in her drawer. What is the probability that she would pull out a pair of black socks?

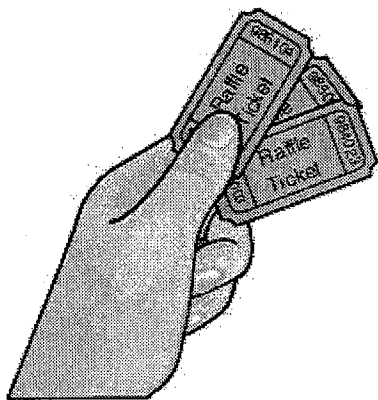
- (a) 4:5
- (b) 2:11
- (c) 4:11
- (d) 5:11



17) Judy's grandmother gave her a bag of candy when she came to visit. There were 4 green pieces, 3 red, 5 purple, and 2 yellow. When Judy reaches into the bag for her first piece of candy, what is the chance she will pick a green or yellow piece?

- (a) 1:2
- (b) 1:4
- (c) 6:8
- (d) 6:14

18) Sanborn Elementary School is holding a raffle to raise money for new playground equipment. If there were 400 tickets sold and you bought 40 of them, what is your chance of winning the raffle?



- (a)  $\frac{1}{10}$
- (b)  $\frac{1}{20}$
- (c)  $\frac{2}{10}$
- (d)  $\frac{200}{20}$

19) Erin has 34 basketball cards and 27 baseball cards randomly arranged in a box. If she picks one card out of the box, what is the probability that she will pick a baseball card?

- (a) 2%
- (b) 4%
- (c) 44%
- (d) 56%

20) If you flip a coin 4 times in a row, one possible outcome you will get is heads, heads, tails, tails. Another possible outcome is heads, tails, tails, tails. How many total outcomes are there for the order of heads and tails?

- (a) 2
- (b) 8
- (c) 16
- (d) 32