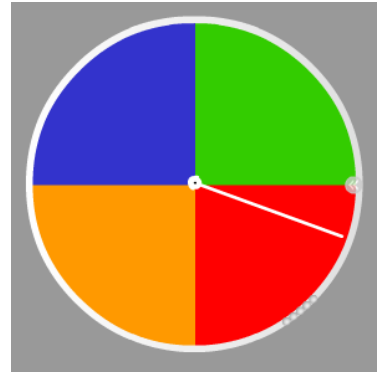




What is the probability of spinning green?

$$\frac{\text{favorable}}{\text{possible}} = \frac{1}{4}$$



If we spin the spinner 100 times about how many times would you expect to spin blue?

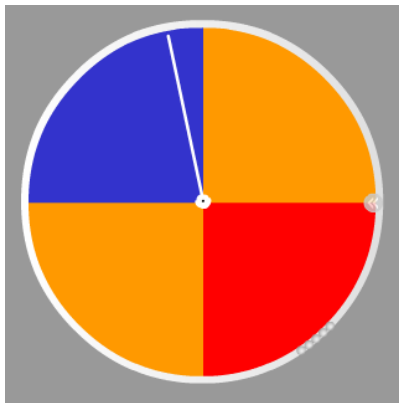
about 25

$$\frac{1}{4} \cdot 100$$

500 times?

about 125

$$25\% \cdot 100$$



$$P(\text{Green}) = 0$$

$$P(\text{Orange}) =$$

$$P(\text{Yellow}) = \frac{1}{2} = \frac{2}{4}$$

$$P(\text{color that starts with a consonant}) =$$

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

$$P(\text{color that starts with a vowel}) =$$

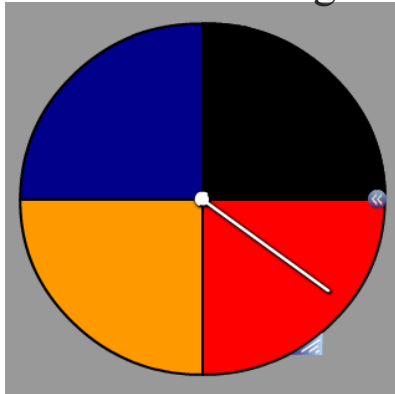
$$0$$

What if we spin the spinner 50 times about how many times would you expect to spin red?

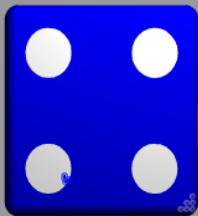
$$\frac{1}{4} \cdot 50 = 12.5 \quad \frac{50}{4} \quad .25 \cdot 50$$

about 12 or 13

About how many times would you expect to spin a color starting with the letter "b"?



about 25



$$P(\text{odd \#}) = \frac{3}{6} = \frac{1}{2}$$

$$P(\text{even \#}) = \frac{1}{2}$$

$$P(5) = \frac{1}{6}$$

$$P(\text{multiple of 3}) = \frac{2}{6} = \frac{1}{3}$$

$$P(7) = 0$$

If we rolled a die 200 times, about how many times would you expect it to land on a 2?

$$\frac{1}{6} \cdot 200$$

$$\frac{200}{6}$$

about 33-34

If we rolled a die 200 times, about how many times would you expect it to land on an even number?

about 100

If we rolled a die 1000 times, about how many times would you expect it to land on an even number?

about 500



$$P(\text{Ace}) = \frac{4}{52}$$

$$P(\text{Spade}) = \frac{13}{52}$$

$$P(\text{Face Card}) = \frac{12}{52}$$

$$P(\text{Red}) = \frac{26}{52}$$

$$P(5) = \frac{4}{52}$$

1. Each time you spin this spinner, how many equally likely outcomes are there?

10

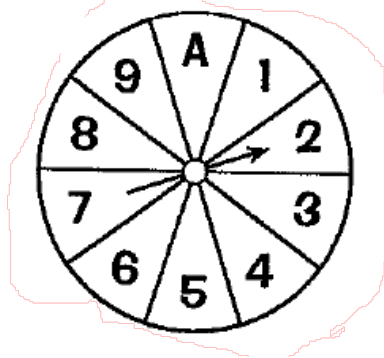
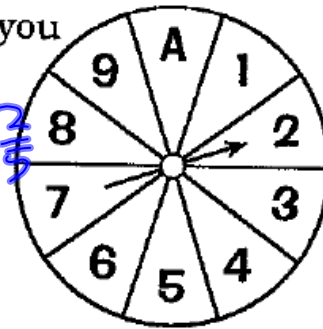
2. Find each probability if you spin the spinner once.

a.  $P(\text{even number})$

$$\frac{4}{10} = \frac{2}{5}$$

b.  $P(\text{odd number})$

c.  $P(\text{"A"})$



3. If you spin the spinner 100 times, about how many times would you expect it to stop on:

a. an even number

b. an odd number

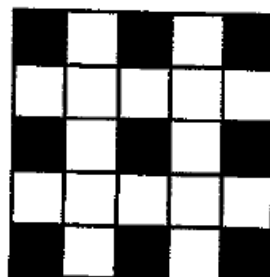
5. If a raindrop falls on this set of tiles, how many equally likely outcomes are there?

6. Find each probability if a raindrop falls on the tiles.

a.  $P(\text{falling on black})$

b.  $P(\text{falling on white})$

c.  $P(\text{falling on green})$



9. Suppose a bag contains 12 green cubes, 5 blue cubes, and 3 yellow cubes. Find each probability if you choose one cube at random:

a.  $P(\text{green})$

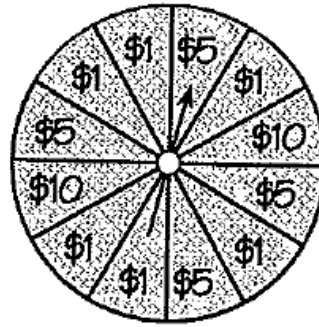
b.  $P(\text{blue})$

c.  $P(\text{yellow})$

d.  $P(\text{not blue})$

- 10.** If you spin this spinner 600 times, about how many times would you expect it to stop on:

- a. \$1  
b. \$5  
c. \$10



- 13.** Suppose you do a survey to find the blood types of 200 people and obtain the results in the table. Based on this data, find the probability that a randomly chosen person has:

- a. Type  $O^+$   
b. Type  $A^-$   
c. Type  $B^-$   
d. Type  $AB^+$  or  $AB^-$

Blood Type	Number of People
$O^+$	76
$O^-$	14
$A^+$	68
$A^-$	12
$B^+$	18
$B^-$	4
$AB^+$	6
$AB^-$	2

