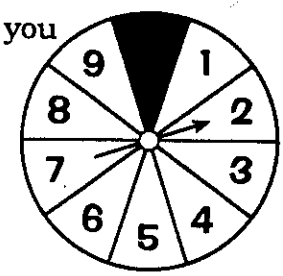
Which Italian Insects Often Fall in Love?

Find each correct answer in the set of answers under the exercise and cross out the letter above it.

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

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



a. P(even number)

b. P(odd number)

c. P(black)

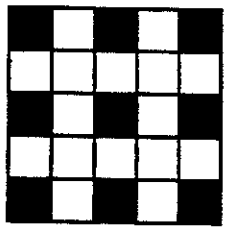
3. If you spin the spinner 100 times, about how many times would you expect it to stop on:

a. an even number **b.** an odd number

4. If you roll a regular 6-faced die 1200 times, about how many times would you expect to get a 4?

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(falling on black)

b. P(falling on white)

c. P(falling on green)

7. If 100 raindrops fall on the tiles, about how many of them would you expect to fall on:

a. a black tile **b.** a white tile

8. Jack rolled a regular 6-faced die three times and got 2 each time. What is the probability he will get 2 on the next roll?

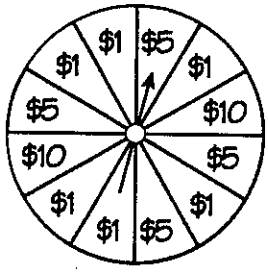
K	I	T	R	A	L	O	N	E	O	M	D	E	S	R	A	S	N	T
200	$\frac{1}{2}$	64	$\frac{1}{3}$	$\frac{16}{25}$	50	$\frac{7}{10}$	$\frac{1}{6}$	10	$\frac{9}{25}$	60	$\frac{1}{10}$	0	25	$\frac{2}{5}$	24	36	$\frac{3}{8}$	40

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(green) **b.** P(blue)

c. P(yellow) **d.** P(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

11. Jill tossed a coin 10 times and got heads every time. What is the probability she will gets heads on the next toss?

12. A traffic signal is green for 20 seconds, then amber for 5 seconds, then red for 30 seconds. When you reach the signal, what is the probability it is:

a. green **b.** amber

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:

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

a. Type O^+

b. Type A^-

c. Type B^-

d. Type AB^+ or AB^-

B	S	T	O	H	U	G	I	V	P	C	E	N	T	E	K	I	S	S
$\frac{3}{20}$	$\frac{19}{50}$	$\frac{7}{20}$	$\frac{1}{50}$	$\frac{3}{4}$	$\frac{1}{2}$	200	$\frac{3}{11}$	$\frac{3}{5}$	$\frac{1}{25}$	120	$\frac{1}{11}$	300	100	$\frac{1}{4}$	$\frac{3}{10}$	$\frac{4}{11}$	$\frac{3}{50}$	$\frac{1}{3}$

II. Using a standard deck of cards, find the probability of each <u>with replacement</u>.

1. P(dia and 3)

2. P(j and a)

3. P(club and spade)

4. P(ace and 9)

III. Using a standard deck of cards, find the probability of each <u>without replacement</u>.

5. P(j and 10)

6. P(11 and heart)

7. P(2 and 2)

8. P(3 and 10 and q)

IV. Using a standing deck of cards, find the probability.

9. P(hrt or queen)

10. P(club or spade)

11. P(5 or 4)

12. P(dia or k)