Name Answer	Key
Date	Period

Red

Blue

Green

Yellow

Color

Frequency

12

10

15

13

50

Aubree has a bag of marbles. She removed one marble, recorded the color and then placed it back in the back. She repeated this process several times and recorded her results in the table.

1) Find the experimental probability of getting a red marble.

	١.
12/50= 6/25	

2) Find the experimental probability of getting a red or blue marble.

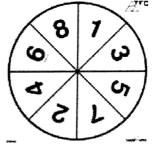
	AND THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS
22/50=	11/25

3) Find the experimental probability of not getting a green marble.

A spinner is equally divided into 8 sections. Each section has a number from 1 to 8.

4) What is the theoretical probability landing on a 5?

5) What is the theoretical probability that it will land on a prime number?



6) What is the probability that it will land on a number divisible by 4?

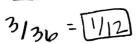
8) What is the probability that it will land on a number divisible by 2?

9) What is the probability that it will land on a number greater than 7?



10) Eli must choose a password for his bank account that consists of 4 letters followed by 3 digits. He cannot use the letters A, B, C, or D and he cannot use the numbers 0 or 2. Each letter may be used more than once and digits may not be repeated. How many possible passwords are there? What is the probability that someone guesses his password?

- a) less than 12
- b) divisible by 5
- c) more than 25



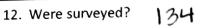
10 30 25 36 Lifetime Fitness offers three group classes, the

itness club is trying to determine the best time to

offer the group fitness classes. Use the following

enn Diagram to answer the following questions.

low many members



13. How many members attend the yoga classes? 42

14. How many members attend cycle or Zumba?

105

15. How many members attended cycle and Zumba?

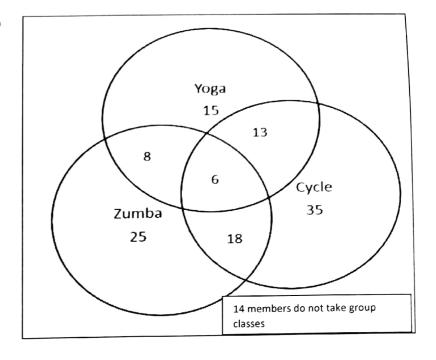
24

How many members attend Zumba classes but not cycle?

33

17. How many members attend Zumba or Yoga but do not attend cycle?

48



18. How many members that attend a group class do not attend Zumba? 63

19. How many members attend Yoga and Cycle?

20. How many members attend Yoga or Cycle?

95

1. A dice is rolled twice, what is the probability of getting an even number both times?

2. If a coin is flipped 180 times, how many times would you predict that the coin lands on tails?

3. If a six-sided die is rolled 865 times, how many times would you predict a roll of an even number?

(4) Universal Set: $\{a, b, c, d, e, f, g, h, i, j, k\}$, $A = \{a, c, f\}$, $B = \{a, b, c, d, i, j, k\}$.

a)
$$A \cap B$$

c)
$$(A \cap B)'$$