10. A natural number from 1 to 10 is randomly chosen.
    a. P(even or 7)
    b. P(even or odd)
    c. P(multiple of 2 or multiple of 3)
    d. P(odd or less than 3)

11. A standard number cube is tossed.
    a. P(even or 3)
    b. P(less than 2 or even)
    c. P(prime or 4)
    d. P(2 or greater than 6)

(number cube = one die) singular of dice

12. Only 93% of the airplane parts Salome is examining pass inspection. What is the probability that all of the next five parts pass inspection?

13. There is a 50% chance of thunderstorms the next three days. What is the probability that there will be thunderstorms each of the next three days?

Q and R are independent events. Find $P(Q$ and $R)$.

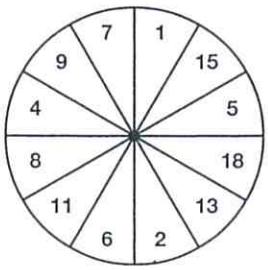
14. $P(Q) = \frac{1}{8}, P(R) = \frac{2}{5}$
15. $P(Q) = 0.8, P(R) = 0.2$
16. $P(Q) = \frac{1}{4}, P(R) = \frac{1}{5}$

M and N are mutually exclusive events. Find $P(M$ or $N)$.

17. $P(M) = \frac{3}{4}, P(N) = \frac{1}{6}$
18. $P(M) = 10\%, P(N) = 45\%$
19. $P(M) = \frac{1}{5}, P(N) = 18\%$

Exercises

Use the spinner at the right to determine the theoretical probability for each event.



1. P(the number is even)
2. P(5)
3. P(the number is prime)
4. P(the number is less than 6)
5. P(an odd number)
6. P(a number divisible by 2)
7. P(a multiple of 3)
8. P(an 11 or 15)
9. P(a composite number)
10. P(the number represents your age)
11. P(a perfect square)
12. P(the number represents your grade)
13. P(not a 5 or 7)