QUIZIZZ Worksheets

Name

Mastering Factorials

Total questions: 15

Worksheet time: 8mins

Instructor name: Dr. Ramanathan Saitechinfo

Class

Date

1. What is the value of 5! ?

a) 200

b) 120

c) 150

d) 100

2. Calculate 7! and provide the answer.

a) 40320

b) 720

c) 5040

d) 504

3. Explain the notation of factorials.

a) The notation of factorials is 'n!', representing the product of all positive integers up to 'n'.

b) The notation of factorials is 'n#', representing the sum of all positive integers up to 'n'.

c) The notation of factorials is 'n*', indicating the division of all positive integers up to 'n'.

d) The notation of factorials is 'n%', which represents the average of all positive integers up to 'n'.

4. What is the factorial of 0?

a) 1
b) 1.5
c) 0
d) -1

5. If n = 4, what is n! ?

a) 24
b) 12
c) 6
d) 30

6. How many ways can you arrange 3 books on a shelf?

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

7. Calculate 6! and show your work.

a) 720
b) 600
c) 7200
d) 36

8. What is the relationship between n! and (n-1)! ?

a) n! = n * (n-1)!
b) n! = n * n!
c) n! = n + (n-1)!
d) n! = (n-1)! + 1

9. If 8! = 40320, what is 7! ?

a) 10080
b) 40320
c) 720
d) 5040

10. Solve for n if n! = 120.

a) 5
b) 3
c) 6
d) 4

11. What is the factorial of 10?

a) 3628800
b) 7200
c) 362880
d) 1000

12. How do you express 5! in terms of 4! ?

a) 5! = 4! × 4!
b) 5! = 5 × 4!
c) 5! = 4! + 1
d) 5! = 5 × 5!

13. If you have 5 different colored balls, how many ways can you arrange them?

a) 60
b) 240
c) 30
d) 120

14. Calculate the value of 9! / 7! .

a) 63
b) 72
c) 56
d) 90

15. What is the factorial of a negative number?

a) Zero

b) Positive integers

c) Undefined

d) Negative integers