

Max's Magnificent Multiples and Fabulous Factors

Master the Maze of Multiplication with Max the Monkey!

- A factor is a number that divides into another number exactly, leaving no remainder. For example, 1, 2, 4, 5, 10, and 20 are all factors of 20.
- A multiple is the result of multiplying a number by an integer. If you count in steps of 6 (6, 12, 18, 24...), you are listing the multiples of 6.
- Factor pairs are two numbers that, when multiplied together, produce a specific product. To find the factor pairs of 16, we look for 1×16 , 2×8 , and 4×4 .
- Every number (except 1) has at least two factors: 1 and the number itself. If a number has only these two factors, it is called a prime number.
- Remember: A multiple is usually larger than or equal to the starting number, while a factor is usually smaller than or equal to the starting number.

Did you know? Did you know that the number 12 is a 'highly composite' number? This means it has more factors than any other number smaller than it! You can arrange 12 items into arrays of 1×12 , 2×6 , or 3×4 . Max loves this because it means there are so many different ways to share his banana snacks fairly!

Key vocabulary: Factor · Multiple · Product · Divisor · Prime · Composite · Array