

Max's Mathematical Marvels: Factors and Multiples

Master the Maze of Multiples and Find the Factors with Max the Monkey!

- A factor is a number that divides exactly into another number without leaving a remainder. For example, 1, 2, 3, 4, 6 and 12 are all factors of 12 because they divide into it perfectly.
- A multiple is the result of multiplying a whole number by another integer. Think of it like a skip-counting sequence; the multiples of 5 are 5, 10, 15, 20 and so on.
- Factor pairs are two numbers that, when multiplied together, produce a specific target number. For 20, the pairs are (1, 20), (2, 10) and (4, 5).
- Prime numbers are special numbers greater than 1 that have exactly two factors: 1 and themselves, such as 2, 3, 5, 7 and 11.
- Common factors are numbers that appear in the factor lists of two different numbers. For example, 3 is a common factor of both 9 and 15.

Did you know? Did you know that the number 1 is a very special guest at every party? It is a factor of every single whole number in existence! However, 1 is neither prime nor composite, making it a unique mathematical anomaly.

Key vocabulary: Factor · Multiple · Product · Prime Number · Composite Number · Common Factor · Divisor