

# Factors and Multiples

Chapter 5: Prime Time · Topic 2

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## Key Concept

Every number is both a factor and a multiple of itself, and 1 is a factor of every number. While every number has a finite, limited set of factors, every number has an infinite number of multiples.

Understanding factors and multiples is essential for simplifying fractions, finding common denominators, and solving problems involving equal grouping or sharing.

## Quick Revision Notes

- A factor divides a number exactly, with no remainder.
- A multiple is obtained by multiplying a number by a whole number.
- Every number has a limited (finite) set of factors but infinite multiples.
- 1 is a factor of every number; every number is a factor and multiple of itself.

## Practice Questions

- 1 List the first five multiples of 6.
- 2 List all the factors of 24.
- 3 Explain why every number has infinitely many multiples but only a limited number of factors.