

Factors and Multiples

Chapter 3: Factors and Multiples · Topic 1

Key Concept

A factor of a number divides into it exactly, with no remainder - for example, 2, 3, and 6 are factors of 6.

A multiple of a number is the result of multiplying it by 1, 2, 3, and so on - for example, multiples of 3 are 3, 6, 9, 12.

Every number has 1 and itself as factors, and finding all factors helps us understand a number's properties.

Understanding factors and multiples helps with simplifying fractions, finding common denominators, and solving division problems.

Quick Revision Notes

- A factor divides exactly into a number.
- 2, 3 and 6 are factors of 6.
- A multiple is the result of multiplying by whole numbers.
- Multiples of 3 are 3, 6, 9, 12.
- Every number has 1 and itself as factors.
- Finding factors helps understand a number's properties.
- Factors and multiples help with fractions.
- They also help with division problems.

Practice Questions

- 1 List all factors of 12.
- 2 List the first five multiples of 5.
- 3 Find a common factor of 8 and 12.
- 4 Find a common multiple of 3 and 4.
- 5 Discuss the difference between factors and multiples.
- 6 Solve: is 7 a factor of 21?