

Sets

Chapter 10: Sets · Topic 1

Key Concept

A set is written using curly brackets, like {1, 2, 3, 4}, listing all the elements (members) of the set.

Sets can be described by listing elements or by describing a property, like 'the set of even numbers less than 10'.

The number of elements in a set is called its cardinal number, so {1,2,3} has a cardinal number of 3.

Understanding sets helps us organise and classify objects, forming a foundation for more advanced maths topics.

Quick Revision Notes

- A set is a collection of distinct objects.
- Sets use curly brackets, like {1,2,3,4}.
- Elements are the members of a set.
- Sets can be listed or described by property.
- 'Even numbers less than 10' describes a set.
- The cardinal number is the count of elements.
- {1,2,3} has cardinal number 3.
- Sets help organise and classify objects.

Practice Questions

- 1 Write a set of the first five even numbers.
- 2 Find the cardinal number of {2,4,6,8,10}.
- 3 Describe a set by property, like 'colours of the rainbow'.
- 4 List the elements of a set of vowels.
- 5 Discuss why sets are useful in maths.
- 6 Create your own set and find its cardinal number.