

Recognising Number Patterns

Chapter 3: Pattern Around Us · Topic 1

Key Concept

A pattern rule could be 'add 7 each time' (7, 14, 21, 28...) or 'subtract 5 each time' (50, 45, 40, 35...).

Some patterns multiply or divide instead of adding or subtracting, like doubling each time (2, 4, 8, 16...).

To find a pattern's rule, we look at the relationship between consecutive numbers - is it the same amount added, subtracted, multiplied, or divided each time?

Recognising number patterns strengthens our number sense and prepares us for algebra concepts we will learn in later classes.

Quick Revision Notes

- A pattern rule connects each number to the next.
- 7, 14, 21, 28 follows the rule 'add 7'.
- 50, 45, 40, 35 follows the rule 'subtract 5'.
- 2, 4, 8, 16 follows the rule 'multiply by 2' (double).
- We find rules by looking at relationships between numbers.
- Patterns can add, subtract, multiply or divide.
- Recognising patterns strengthens number sense.
- This prepares us for algebra in later classes.

Practice Questions

- 1 Find the rule for the pattern 4, 8, 12, 16.
- 2 Continue the pattern: 90, 80, 70, __, __.
- 3 Create your own multiplying number pattern.
- 4 Find a missing number in a pattern given by a friend.
- 5 Explain the rule of a pattern you created.
- 6 Practice three more number pattern problems.