

Extending Patterns

Chapter 3: Pattern Around Us · Topic 2

Key Concept

To extend a pattern, we first identify its rule, then apply that rule to find the next few terms in the sequence.

For shape patterns, like circle-square-circle-square, we continue by repeating the same sequence of shapes.

For number patterns, like 5, 10, 15, 20, we continue by adding the same amount (5) to get 25, 30, and so on.

Extending patterns accurately requires careful attention to the rule, and checking our work helps ensure we haven't made a mistake.

Quick Revision Notes

- We identify the rule before extending a pattern.
- Shape patterns repeat the same sequence.
- Circle-square-circle-square continues the same way.
- Number patterns apply the same rule repeatedly.
- 5, 10, 15, 20 extends to 25, 30 by adding 5.
- Extending patterns needs careful attention to the rule.
- Checking our work helps avoid mistakes.
- This skill builds on recognising patterns.

Practice Questions

- 1 Extend the pattern: 8, 16, 24, __, __.
- 2 Extend the shape pattern: star, moon, star, moon, __, __.
- 3 Create a pattern and ask a friend to extend it.
- 4 Check and correct a pattern extension for mistakes.
- 5 Extend a subtraction pattern: 100, 90, 80, __, __.
- 6 Practice three more pattern extension problems.