


Class 6 Maths – Chapter 1: Patterns in Mathematics

 Name: _____

 Date: _____

 JoyeLearning

◆ Section A: Basic Understanding (1 mark each)

1. What is a pattern?

- a) Random numbers
- b) A repeated or rule-based sequence
- c) A drawing

 Answer: _____

2. Identify the rule:

- a) 2, 4, 6, 8 → _____
 - b) 5, 10, 15, 20 → _____
-

◆ Section B: Number Patterns (2 marks each)

3. Fill in the blanks:

- a) 3, 6, 9, __, __
 - b) 10, 20, __, __
 - c) 7, 14, __, __
-

4. Find the missing numbers:

- a) 1, 3, 5, 7, __
 - b) 12, 15, 18, __
 - c) 20, 18, 16, __
-

◆ Section C: Increasing & Decreasing (2 marks each)

5. Write whether the pattern is Increasing or Decreasing:

a) 2, 5, 8, 11 → _____

b) 30, 25, 20, 15 → _____

6. Complete the pattern:

a) 4, 8, 12, __, __

b) 50, 45, 40, __, __

◆ Section D: Visual Patterns (3 marks each)

7. Continue the pattern:

a)  _____

b)  _____

8. Draw the next pattern:



Continue:

◆ Section E: Matchstick Patterns (3 marks)

9. Observe the pattern and complete:

Figure

Squares

Matchsticks

1  _____

2  _____

3  _____

◆ Section F: Pattern Rules (3 marks each)

10. Find the rule and next number:

a) 1, 4, 7, 10, ___

Rule: _____

b) 2, 6, 10, 14, ___

Rule: _____

◆ Section G: Puzzle Section (4 marks each)

11. Find the missing number:

a) 2, 4, 8, 16, ___

b) 1, 4, 9, 16, ___

12. Odd one out:

a) 3, 6, 9, 12, 14 → _____

b) 5, 10, 15, 20, 25 → _____

◆ Section H: Create Your Own Pattern (5 marks)

13. Make a number pattern:

14. Make a shape pattern:



Continue:

★ Challenge Questions (Higher Order Thinking)

15. Find the next number:

a) 2, 5, 9, 14, ___

b) 2, 6, 7, 21, 22, ___