

Chapter- 18

Patterns

STUDY NOTES

At the end of this chapter, you will be able to:

- Understand geometrical patterns
- Answer numerical patterns
- Understand progressive patterns

What is pattern ?

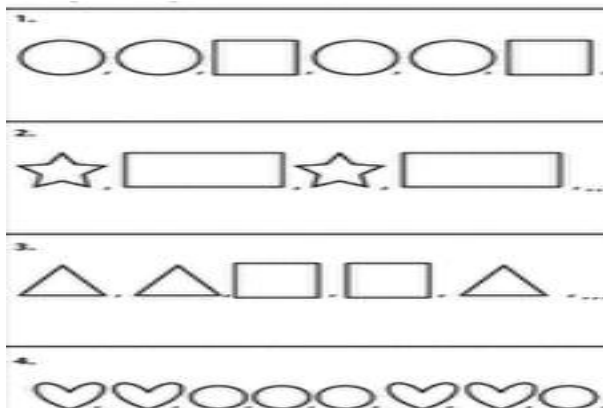
The arrangement in which colours, designs, shapes or numbers are arranged according to a rule is called pattern.

Types of patterns:

- Geometrical Pattern
- Number Pattern

➤ Geometrical pattern:

Pattern consisting of colours, designs or shapes is called a **geometrical pattern**.



1. Observe the pattern and complete the last figure.

Circle the shape that comes next in the sequence.



➤ **Number Pattern**

The pattern consisting of numbers is called a number pattern.

3, 6, 9, 12, 15, 18, _____

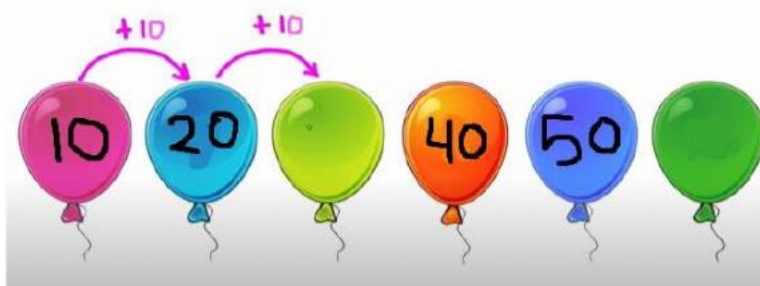
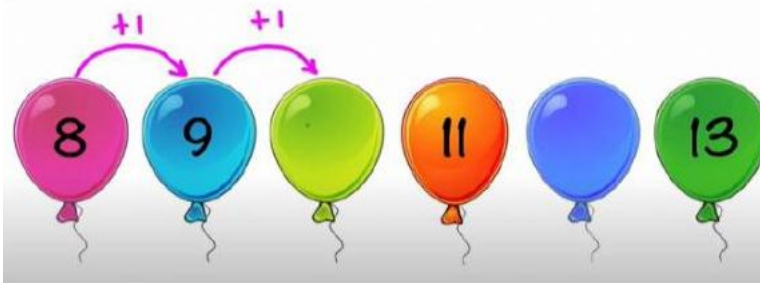
Describe the Pattern: _____

20, 18, 16, 14, 12, 10, _____

Describe the Pattern: _____

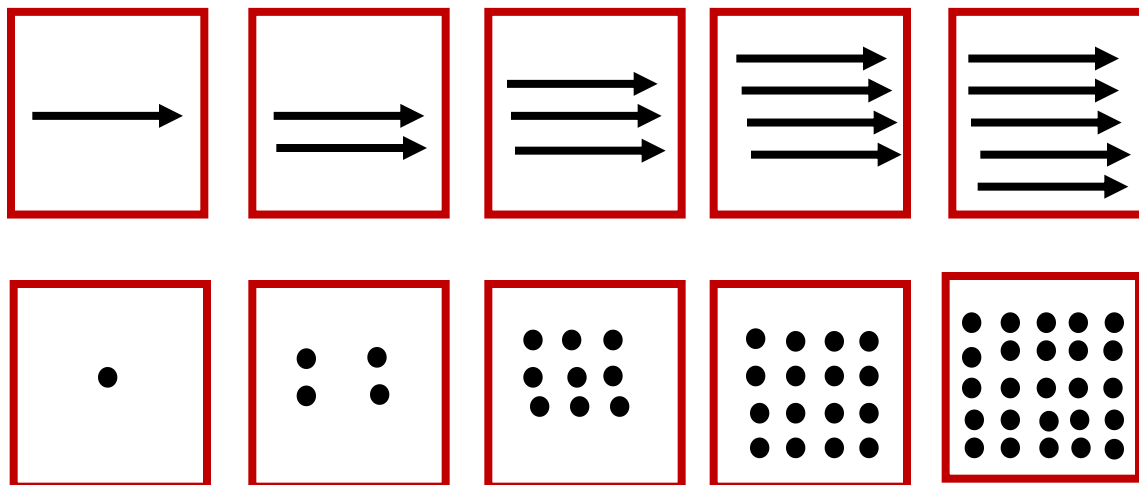
2, 2, 6, 6, 8, 8, _____

2. Complete the number pattern:



➤ **Progressive Geometric Pattern**

The pattern which can go on and on without coming to an end is called progressive pattern. Such patterns are infinite.



➤ **Progressive Number Pattern**

- a) 7, 10, 13, 16, 19, 22, 25....

Each term of the given pattern is obtained by adding 3 to the previous number.

- b) 80, 90, 100, 110, 120, 130...

Each term of the given pattern is obtained by adding 10 to the previous number.

- c) 4, 7, 13, 25, 49...

Each term of the given pattern is obtained by multiplying 2 to the previous number and subtracting 1.

