

## 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 ?

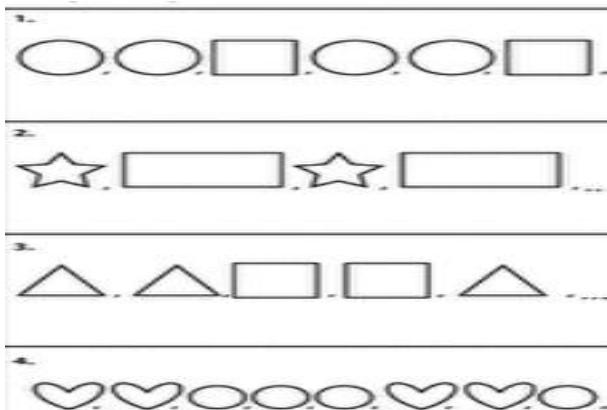
The arrangement in which colours, designs, shapes or numbers are arranged according to a rule is called pattern.

### 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.



a.  b.  c. 



a.  b.  c. 



a.  b.  c. 



a.  b.  c. 



a.  b.  c. 



a.  b.  c. 



a.  b.  c. 

➤ Number Pattern

The pattern consisting of numbers is called a number pattern.

3, 6, 9, 12, 15, 18, \_\_\_\_\_

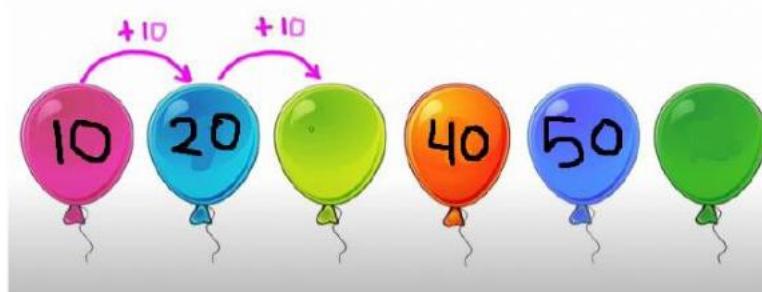
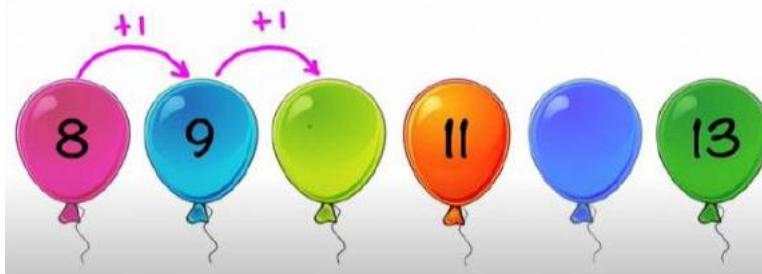
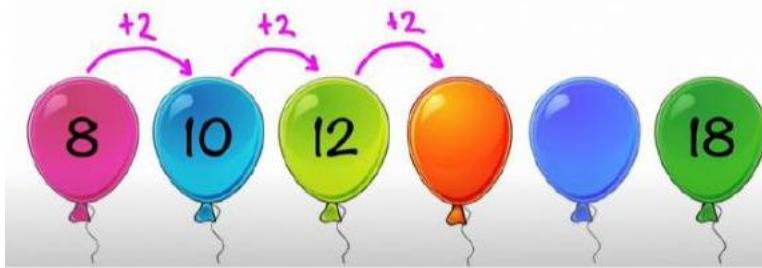
Describe the Pattern:

20, 18, 16, 14, 12, 10, \_\_\_\_\_

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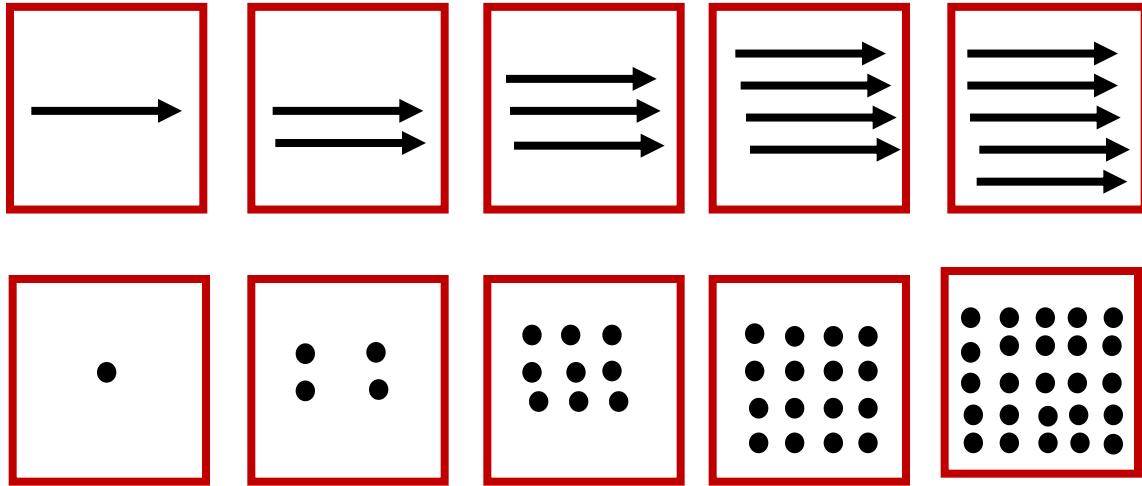
2, 2, 6, 6, 8, 8, \_\_\_\_\_

## 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.**

