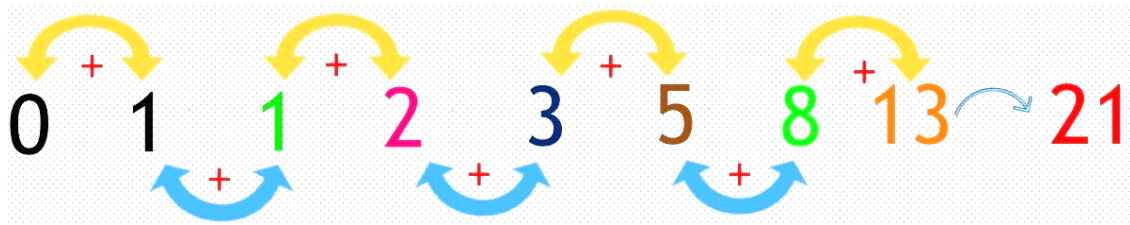


## Number Patterns

### Understanding Notes

- A number pattern is a sequence of numbers that follow a certain rule
- These patterns can increase, decrease or change in a repeated way
- Some common patterns are by adding, subtracting, multiplying, or dividing numbers
- Number patterns help in predicting the next number in the series
- We should look carefully to find the rule used in the pattern
- Number patterns improve logical thinking and problem-solving skills



### Example: (Easy – Addition pattern)

- 2 4 6 8 10
- **Rule:** Add 2 each time
- Next number = 12

### Example: (Easy – Subtraction pattern)

- 20 18 16 14
- **Rule:** Subtract 2 each time
- Next number = 12

### Example: (Moderate – Multiplication pattern)

- 3 6 12 24
- **Rule:** Multiply by 2 each time
- Next number = 48

### Example: (Moderate – Skip counting pattern)

- 5 10 15 20 25
- **Rule:** Add 5 (skip counting by 5)
- Next number = 30



### Example: (Moderate – Mixed pattern)

- 1 4 9 16 25
- **Rule:** Add odd numbers (1, 3, 5, 7, 9...)

➤  $1 + 3 = 4$

➤  $4 + 5 = 9$

➤  $9 + 7 = 16$

➤  $16 + 9 = 25$

Next number =  $25 + 11 = 36$

### Summary Points

- Number patterns follow a specific rule or order.
  - Patterns can be made by adding, subtracting, multiplying, or dividing.
  - Finding the rule helps us continue the pattern.
  - Number patterns help in building strong math skills.
  - Practice helps in spotting patterns quickly and easily.
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