



# MATHEMATICS

## MADE EASY

3



**BASIC GEOMETRICAL CONCEPTS**

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# Patterns and Symmetry

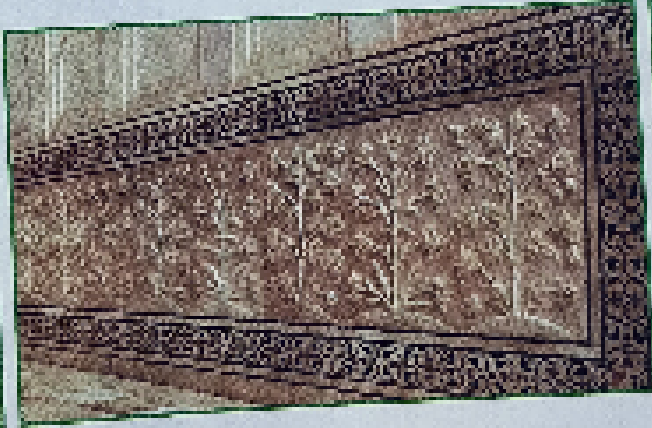
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## Learning Outcomes

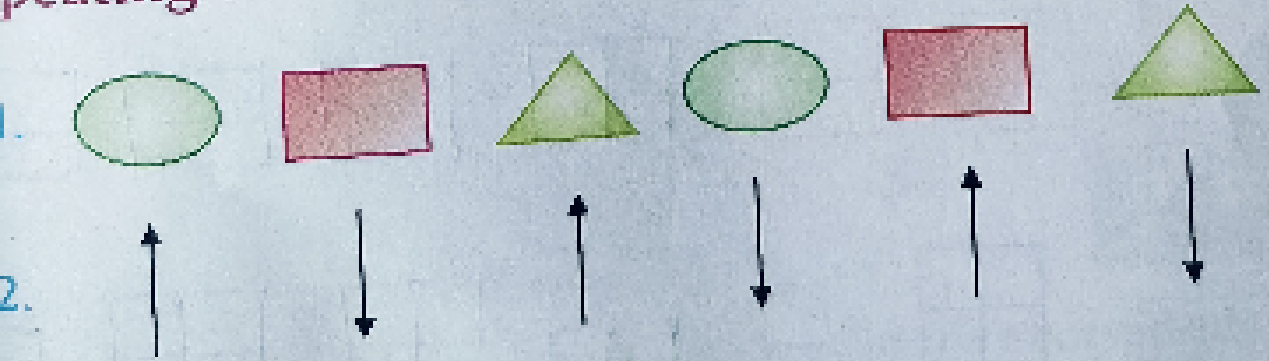
- After completing this chapter, the students will be able to :
- Identify patterns in shapes.
  - Identify with tile patterns.
  - Identify the line of symmetry in the figures.
  - Identify number patterns.

Patterns are present everywhere around us. Patterns can be seen in nature, shapes and numbers.

An arrangement that follows a certain order is called a pattern.



## Repeating Patterns



## Increasing Pattern



# Exercise-4

(According to NEP Guidelines)  
(Understanding, Computing, Analysis)

1. Study the following patterns carefully and complete them :

(a)	6	13	20	27	34	41	48
(b)	86	80	74	68	62	56	50
(c)	180	162	144	126	108	90	72
(d)	15	30	45	60	75	90	105

2. Identify each number pattern and fill in the missing numbers :

(a)	98	90	82	74	66	58	50	42	34	26
(b)	13	22	31	40	49	58	67	76	85	94
(c)	26	33	40	47	54	61	68	75	82	89
(d)	60	65	70	75	80	85	90	95	100	105



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What comes next in each of the following patterns?

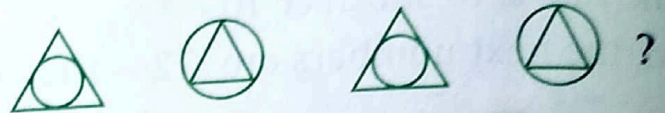
1. ABC, EFG, IJK, ..MNO.....
2. AC, BD, CE, ..D.F.....
3. AZ, BY, CX, ....DW.....
4. AB, EF, IJ, ...MN.....
5. ABC, ZYX, DEF, ..W.VU.....
6. ZYX, WVU, TSR, Q.P.O.....

## Review Exercise

(According to NEP Guidelines)  
(Understanding, Computing, Analysis)

1. Choose the correct options.

(a) What comes next in the pattern



- (i)  (ii)  (iii)

(b) What is the rule of the pattern 2, 5, 11, 23, 47, ...?

- (i) Add 3   
 (ii) Multiply by 2 and then add 1   
 (iii) Add 6

(c) What comes next in the pattern?



- (i)  (ii)  (iii)

(d) What come next in the pattern?

AB, 12, CD, 34, ....., .....

- (i) EF, 35  (ii) EF, 56  (iii) FG, 45

2. Study the following patterns and complete them :

- (a) 4, 10, 22, 46, ...94..., ...190..., ...382..
- (b) 200, 170, 140, 110, ...80..., ...50..., ...20.....
- (c) 1, 3, 6, 10, ...15....., ...21..., ...28....
- (d) 2, 3, 6, 11, 18, ...27....., ...38..., ...51....