## St. Andrews Scots Sr. Sec. School

9th Avenue, I.P. Extension, Patparganj, Delhi -110092

Session: 2024-2025

Class: IV	Subject: Mathematics	Topic: Unit 14	patterns and symmetry
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Questions to be done-

Warm up points

Ex 14 A (book)

Ex 14 B (book)

Ex 14 C (book)

Worksheet

Lady Bug activity

## **Exercise 14A**

1. (a) 1, 2, 3, 5, 8, 13, (21), (34), (55).

Rule: Add the two previous numbers.

(b) 30, 35, 33, 38, 36, 41, 39

Rule: Add 5, subtract 2.

(c) 122, 120, 115, 113, 108, 106, 101, 99, 94

Rule: Subtract 2 then subtract 5.

(d) 4, 12, 36, 108, 324, 972, 2916.

Rule: Multiply with 3 at every number to get next number.

(e) 1, 3, 6, 10, 15, 21, 28, 36

Rule: Consecutive numbers are added starting from 2.

2. 1+2=3 1+2+3=6 1+2+3+4=10 1+2+3+4+5=15  $\vdots$  1+2+3+4+5+6+7+8=361+2+3+4+5+6+7+8+9+10=55

Rule:  $\frac{n(n+1)}{2}$  (where *n* is the total numbers to be added)

 3.
 Number of triangles
 1
 2
 3
 4
 5

 Number of matchsticks
 3
 5
 7
 9
 11

Rule: 2n + 1 (where n is number of triangles).

## Exercise 14B

1. (a) 9

12 15 22 5 13 1 20 8

I

LOVE

MATH

(b) 8 15 13 5 19 23 5 5 20

HO ME

SWEET

8 15 13 5 HO M E

(c) 13 25

13 15 20 8 5 18

9 19 2 5 19 20

M Y

MOTHER

IS BEST

2. (a) Do it yourself.

(b) T O D A Y

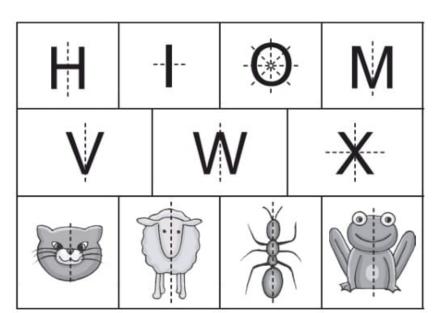
I S

H E R E

20 15 4 1 25 9 19 8 5 18 5

Exercise 14C

1.



Note: N have no lines of symmetry.

- 2. (a) No
- (b) Yes
- (c) Yes (d) Yes
- (e) Yes
- (f) No

- (g) Yes
- (h) No
- (i) No
- (j) Yes
- (k) Yes
- (l) No

3. Do it yourself.