

St. Andrews Scots Sr. Sec. School

I.P Extension, Patparganj, Delhi – 110092

Session: 2026-2027

Class: V

Subject: Mathematics

Unit 10 - Pattern ,shapes and symmetry

Work to be done:

Ex-10 A: Q1 in Book.

Q2 in Notebook.

Q3in Notebook.

Q4 – a in Notebook

Ex-10 B: Complete all questions in Book.

Ex-10 C: Q1, Q2, Q3, Q4 ,Q5 in Book.

Review time

Worksheet

Activity

Chapter 10: Patterns, Shapes and Symmetry

Exercise 10A

1. (a)

$$1 + 3 = 4$$

$$1 + 3 + 5 = 9$$

$$1 + 3 + 5 + 7 = 16$$

$$1 + 3 + 5 + 7 + 9 = \boxed{25}$$

$$\boxed{1} + \boxed{3} + \boxed{5} + \boxed{7} + \boxed{9} + \boxed{11} = \boxed{36}$$

(b) 36, 45, 55, 66, 78, 91, 105, 120

(c) 49, 64, 81, 100, 121, 144

2. The square numbers between 75 and 225 are,

$$9 \times 9 = 81$$

$$10 \times 10 = 100$$

$$11 \times 11 = 121$$

$$12 \times 12 = 144$$

$$13 \times 13 = 169$$

$$14 \times 14 = 196$$

3. Before

$$42 \times 42 = 1764$$

Square number

$$43 \times 43 = 1849$$

After

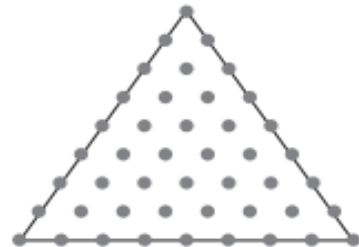
$$44 \times 44 = 1936$$

Square number

4. (a)



(b)



Exercise 10B

1. (b)  is a net of a cube

2. (a) (iii)

(b) (i)

(c) (iv)

(d) (ii)

Exercise 10C

1. (b) and (c)

2. Do it yourself.

3. (a) reflection and rotational

(b) three

(c) infinite

(d) line

4. No, the design does not have rotational symmetry.

5. Yes, $\begin{matrix} 8 \\ \text{(Original)} \end{matrix} \Rightarrow \left(\text{After } \frac{1}{4} \text{ turn clockwise} \right) \Rightarrow \begin{matrix} 8 \\ \text{(After } \frac{1}{2} \text{ turn clockwise)} \end{matrix} \Rightarrow \left(\text{After } \frac{3}{4} \text{ turn clockwise} \right) \Rightarrow \begin{matrix} 8 \\ \text{(After full complete form)} \end{matrix}$

Review Time

- | | | | | | |
|------|-----------|-----------|-----------|------------|--------|
| I. | 1. (c) | 2. (a) | 3. (a) | 4. (b) | 5. (c) |
| II. | 1. 21, 28 | 2. 48, 58 | 3. 23, 33 | 4. 75, 125 | |
| III. | 1. T | 2. F | 3. F | 4. T | 5. T |
| VI. | 1. (a) | 2. (b) | 3. (b) | 4. (c) | |
| V. | 1. (a) | 2. (b) | 3. (d) | 4. (a) | |