

St. Andrews Scots School

Adjacent Navniti Apartments, I.P. Extension, Patparganj, Delhi-110092

Session:2026-27

Worksheet

Class: VI

Subject: Mathematics

Topic: Patterns in Maths

Multiple Choice Questions

1. What comes next in the pattern?

3, 18, 15, 24, 35, ____

(a) 42

(b) 46

(c) 48

(d) 50

2. Which rule is followed in this pattern?

7,14,28,56,112

(a) Add 7

(b) Multiply by 2

(c) Add 14

(d) Multiply by 7

3. Which of the following is a Fibonacci sequence?

(a) 2, 4, 6, 8, 10

(b) 1, 1, 2, 3, 5, 8

(c) 3, 6, 9, 12, 15

(d) 1, 4, 9, 16, 25

4. Which number should replace the question mark?

3, 6, 11, 18, 27, ?

(a) 36

(b) 37

(c) 38

(d) 39

5. How many zeroes exist in the cube of 10?

(a) 8

(b) 3

(c) 6

(d) 1

6. How many triangles will be in the next figure?

△

△△

△△△

△△△△

(a) 3

(b) 4

(c) 5

(d) 6

7. A polygon with 7 sides is called:-

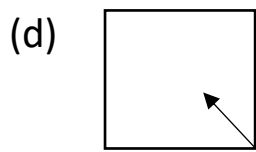
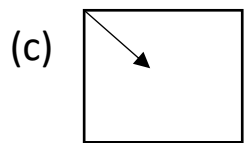
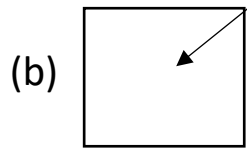
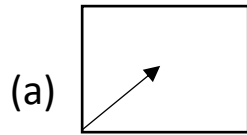
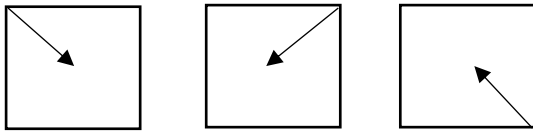
(a) Triangle

(b) Decagon

(c) Heptagon

(d) Nonagon

8. What will be the next figure in the given pattern?



9. Which is the missing ordered pair in the pattern?

(1, 2) (2, 4) (3, 6) (4, 8) (__, __)

(a) (5, 9)

(b) (5, 10)

(c) (6, 10)

(d) (6, 12)

10. Which set contains only even numbers?

(a) 3, 5, 7

(b) 10, 12, 14

(d) 9, 11, 13

(d) 15, 17, 19

Subjective Questions

1. Find the Square numbers lying between 95 and 295.
 2. What happens when you multiply the triangular numbers by 6 and add 1? Which sequence do you get?
 3. Starting at 6, multiply by 2 and then subtract 2. Find first 6 terms.
 4. **A school builds a staircase using blocks:**
 - 1st step: 2 blocks
 - 2nd step: 6 blocks
 - 3rd step: 12 blocks
 - 4th step: ?
 - 5th step: ?
- (a) **Identify pattern rule.**
- (b) **Find number of blocks in 5th step.**
- (c) **Find total blocks in first 5 steps.**
5. Identify the smallest number that is a triangular number as well as a square number.

