

AUTUMN BREAK HOLIDAY HOMEWORK

Class 6th • Subject: Mathematics

Student Name: _____ Roll No: _____ Date: _____

Quick Key Formulas & Reminders:

- **Perimeter of Rectangle:** $2 \times (\text{Length} + \text{Breadth})$
- **Perimeter of Square:** $4 \times \text{Side}$
- **Area of Rectangle:** $\text{Length} \times \text{Breadth}$
- **Area of Square:** $\text{Side} \times \text{Side}$

SECTION A: Multiple Choice Questions (1 Mark Each)

4 Marks

1. What is the perimeter of a regular pentagon of side 7 cm?

- (A) 28 cm (B) 35 cm
(C) 42 cm (D) 30 cm

2. The area of a square garden whose side measures 12 m is:

- (A) 48 m² (B) 120 m²
(C) 144 m² (D) 24 m²

3. Find the perimeter of a rectangle with length 9 cm and breadth 5 cm.

- (A) 28 cm (B) 45 cm
(C) 14 cm (D) 36 cm

4. If the area of a rectangle is 60 cm² and its length is 12 cm, its breadth is:

- (A) 4 cm (B) 5 cm
(C) 6 cm (D) 10 cm

SECTION B: Very Short Answer Questions (2 Marks Each)

6 Marks

5. Find the perimeter of each of the following shapes:

- (a) A triangle with sides 10 cm, 14 cm, and 15 cm. (b) An equilateral triangle of side 8 cm.

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6. Calculate the area of a rectangular plot whose length is 25 m and breadth is 14 m.

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7. Find the side of a square whose perimeter is 64 cm.

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SECTION C: Short Answer Questions (3 Marks Each)**9 Marks****8. Athletic Track Problem:**

Sweety runs around a square park of side 75 m. Bulbul runs around a rectangular park with length 60 m and breadth 45 m. Who covers less distance and by how much?

*Space for Working***9. Flooring Calculation:**

A floor is 5 m long and 4 m wide. A square carpet of sides 3 m is laid on the floor. Find the area of the floor that is *not* carpeted.

*Space for Working***10. Fencing Cost:**

Find the cost of fencing a rectangular park of length 250 m and breadth 175 m at the rate of \$12 per meter.

*Space for Working***SECTION D: Long Answer Questions (5 Marks Each)****10 Marks****11. Tile Paving Application:**

A rectangular room is 8 m long and 6 m wide. How many square tiles of side 2 m will be required to pave the entire floor of the room? Also find the total cost of tiles if 1 tile costs \$45.

*Space for Working***12. Field Comparison:**

Two rectangular fields have the same perimeter. Field A is 60 m long and 40 m wide. Field B is 70 m long. Find the breadth of Field B and determine which field has a greater area.

*Space for Working***Answer Key (For Self-Evaluation):**

1. (B) 35 cm

2. (C) 144 m²

3. (A) 28 cm

4. (B) 5 cm

