

# **St. Andrews Scots Sr. Sec. School**

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

**Session: 2024-2025**

**Class: IV**

**Subject: Mathematics**

**Topic: Unit - 13**

Questions to be done-

Warm up points –

Exercise 13 A - Q.1 a,d (Book)

Q.2, Q.3 c, Q.4 c, Q.6, Q.8, Q.9

Exercise 13 B - Q.1 a,d Q.2 b, Q.4 b, Q.6

Worksheet

## Chapter 13: Perimeter and Area of Rectilinear Figures

Exx

### Exercise 13A

- (a) Perimeter =  $(3 + 5 + 4 + 6)$  cm = 18 cm

(b) Perimeter =  $(2 + 3 + 7 + 5 + 3)$  cm = 20 cm

(c) Perimeter =  $(1 + 2 + 5 + 3 + 6 + 5)$  cm = 22 cm

(d) Perimeter =  $(5 + 4 + 4 + 3 + 6 + 4)$  cm = 26 cm
- (a) Perimeter of  $\triangle PQR = PQ + QR + RP$   
=  $(18 + 14 + 20)$  cm = 52 cm

(b) 1<sup>st</sup> side of triangle = 6 m 20 cm = 620 cm  
2<sup>nd</sup> side of triangle = 4 m 15 cm = 415 cm  
3<sup>rd</sup> side of triangle = 8 m 25 cm = 825 cm  
Perimeter of triangle =  $(620 + 415 + 825)$  cm  
= 1860 cm or 18 m 60 cm

(c) Perimeter of triangle =  $(15 + 15 + 15)$  cm = 45 cm
- (a) Length = 40 cm, breadth = 15 cm  
Perimeter of rectangle =  $2(l + b) = 2(40 + 15) = 2 \times 55 = 110$  cm

(b) Length = 18 m, breadth = 9 m  
Perimeter of rectangle =  $2(l + b) = 2(18 + 9) = 2 \times 27 = 54$  m

(c) Length = 17 m 65 cm = 1765 cm  
Breadth = 10 m 15 cm = 1015 cm  
Perimeter of rectangle =  $2(l + b) = 2(1765 + 1015)$   
=  $2 \times 2780 = 5560$  cm = 55 m 60 cm
- (a) Side = 17 cm  
Perimeter of square =  $4 \times \text{side} = 4 \times 17 = 68$  cm

(b) Side of square = 21 cm  
Perimeter of square =  $4 \times \text{side} = 4 \times 21 = 84$  cm

(c) Side of square = 19 m 30 cm = 1930 cm  
Perimeter of square =  $4 \times \text{side} = 4 \times 1930$   
= 7720 cm = 77 m 20 cm

5. Side of square lawn = 13 m  
Perimeter of lawn =  $4 \times \text{side} = 4 \times 13 = 52 \text{ m}$   
Hence, the length of fence = 52 m
6. Length of field = 83 m  
Breadth of field = 62 m  
Perimeter of rectangular field =  $2(l + b)$   
 $= 2(83 + 62) = 2 \times 145 = 290 \text{ m}$   
Thus, Rohan covered a distance = 290 m.
7. Side of square = 15 cm  
Perimeter of square =  $4 \times \text{side} = 4 \times 15 = 60 \text{ cm}$   
Length of rectangle = 20 cm  
Breadth of rectangle = 15 cm  
Perimeter of rectangle =  $2(l + b) = 2(20 + 15) = 2 \times 35 = 70 \text{ cm}$   
Hence, perimeter of rectangle is greater by  $70 \text{ cm} - 60 \text{ cm} = 10 \text{ cm}$
8. Perimeter of carrot field =  $(80 + 50 + 70 + 10 + 10 + 60) \text{ m} = 280 \text{ m}$   
Perimeter of radish field =  $(70 + 30 + 80 + 20 + 10 + 10) \text{ m} = 220 \text{ m}$   
No, perimeter of carrot field is more.
9. Let, side of square field = a meter  
Then, according to question  
 $8a = 84$   
 $a = 10.5 \text{ meter}$
10. According to given data  
Perimeter of Rectangular field =  $2(80 + 50) \text{ m}$   
 $= 2 \times 130 \text{ m}$   
 $= 260 \text{ m}$   
Now, cost =  $260 \times 7.5$   
 $= ₹ 1950$

### Exercise 13B

1. (a) 6                      (b) 12                      (c) 9                      (d) 10

2. (a) 8                      (b) 18

3. (a) Area of the rectangle = length  $\times$  breadth  
=  $(26 \times 4)$   
= 104 sq. cm

(b) Area of the rectangle = length  $\times$  breadth  
=  $(28 \times 10)$   
= 280 sq. cm

4. (a) Area of the square = side  $\times$  side  
=  $15 \times 15$   
= 225 sq. cm

(b) Area of the square = side  $\times$  side  
=  $(20 \times 20)$   
= 400 sq. cm

5. Length of the rectangular table = 28 cm  
Breadth of the rectangular table = 12 cm  
Area of the rectangular table = Length  $\times$  breadth  
=  $28 \times 12 = 336$  sq. cm

6. Area of a square = side  $\times$  side  
=  $36 \times 36$   
= 1296 sq. cm