G.D.GOENKA PUBLIC SCHOOL

Subject: Mathematics (6^{th}) **Date: 11-08-2021**

CHAPTER 14: PERIMETER AND AREA

Exercise 14.1

Qno3: Find the perimeter of the rectangle whose length and breadth are 9.6 cm and 7.9 cm respectively.

Sol: Perimeter of a rectangle = 2 × (length + breadth)

∴ Perimeter = 2 × (9.6 + 7.9)

=2 x (17.5)

= 35 cm

Qno4: Find the cost of fencing a rectangular field 250 m long and 130 m wide at Rs30 per metre.

Sol: Perimeter of the field = 2 × (length + breadth)

= 2 × (250 m + 130 m)

= 2 × (380) m

= 760 m

Cost of fencing 760 m = 760 × Rs 30 = Rs 22,800

Qno5: Find the length of the metal strip required to frame a picture of length 54 cm and breadth 39 cm.

Sol: Perimeter of the picture = 2 × (length + breadth)

Length of wooden strip = 2 × (54 cm + 39 cm)

= 2 × 93 cm

= 186 cm

Qno6: Find the perimeter of each of the following:

(i) **A triangle of side 8 cm, 15 cm and 22 cm.**

Sol: Perimeter = Total length of sides = (8 + 15 + 22) cm = 45 cm

(ii) **An equilateral triangle of side 13.5 cm.**

Sol: Perimeter of equilateral triangle = 3 × side = 3 × 13.5 cm = 40.5 cm

(iii) **An isosceles triangle with equal sides measure 12 cm each and third side measures 8.5 cm.**

Sol:Perimeter of isosceles triangle = (2 × equal sides) + third side

= (2 × 12 + 8.5) cm = 32.5 cm

(Write Qno3 to Qno6 in your interleaf notebook)