ALLEN IntelliBrain®

Experiential Experimental Edutaining

MATHS

SAMPLE BOOK

4 GRADE

MATHS

I'm the

Intelli Kid

.....

and

I'm becoming the

Best Version

of myself with

ALLEN Intelli Brain®

Experiential Experimental Edutaining

School+ Curriculum, Content & Learning Outcomes are based on NATIONAL EDUCATION POLICY 2020 RECOMMENDED by GOVERNMENT OF INDIA

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GRADE-4

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I AM PROGRESSING

(Tick mark the columns after achieving the Learning Milestones)

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Numerals and Number Names				
Number Sense				
Roman Numerals				
Computation Operations				
Factors and Multiples				
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Measurement & Conversions of Length, Weight, Capacity & Temperature				
Time and Calendar				
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Perimeter and Area				
Data Handling				
Symmetry				

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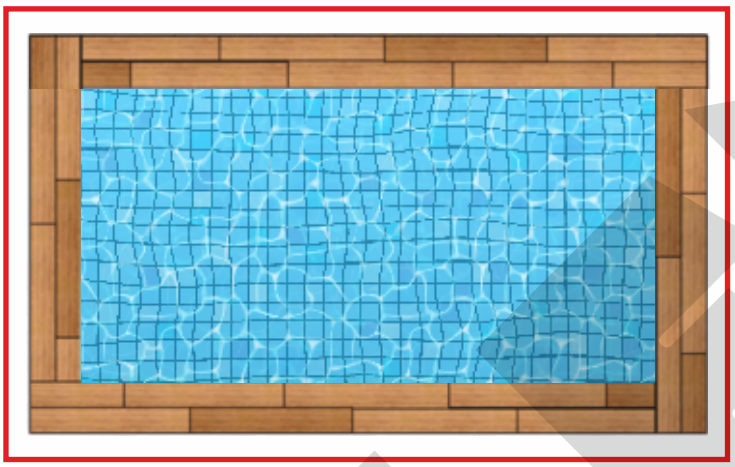
SAMPLE THEORY

CHAPTER 13

PERIMETER AND AREA

PERIMETER

Perimeter of a shape can be defined as the sum of the length of its sides or the total length of the outline (boundary) of a shape.

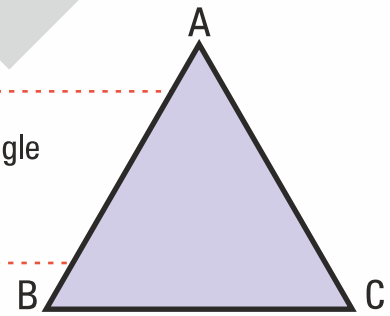


PERIMETER = OUTLINE

Triangle

Perimeter of a ΔABC = Sum of all the sides of the triangle

$= AB + BC + CA$



Square

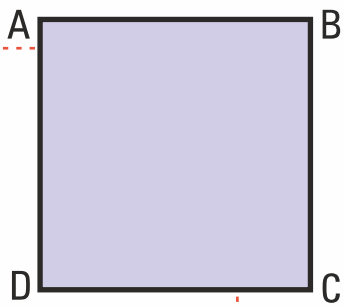
Perimeter = Side + Side + Side + Side

$= AB + BC + CD + DA$

Here, $AB = BC = CD = DA$

Perimeter of a square = 4 × length of one side

Perimeter = $4 \times$ Side



Rectangle

L = Length, B = Breadth, P = Perimeter

$P = L + B + L + B$

$P = AB + BC + CD + DA$

$P = 2 \times (L + B)$

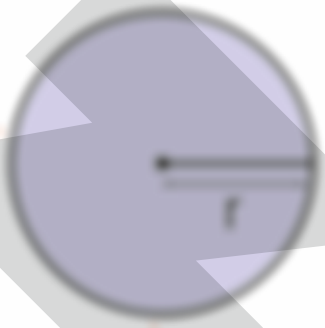
$P = 2 \times (\text{Length} + \text{Breadth})$

Circle

Circumference of a circle $= 2 \times \pi \times r$

where, r = radius of the circle

π = is a Sx number equal to $\frac{22}{7}$ or 3.14



DID YOU KNOW ?

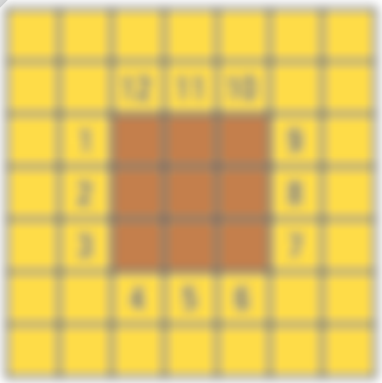
The Perimeter of a circle is known as the circumference of the circle.

Example 1: Find the perimeter of the dark shaded region in the figure given below.

Here, side of each = 1 Unit

Side

Solution: We have, side of each = 1 Unit. So, perimeter of the dark shaded region is 12 Units.



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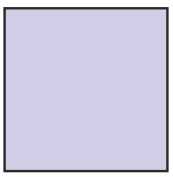
SAMPLE EXERCISE

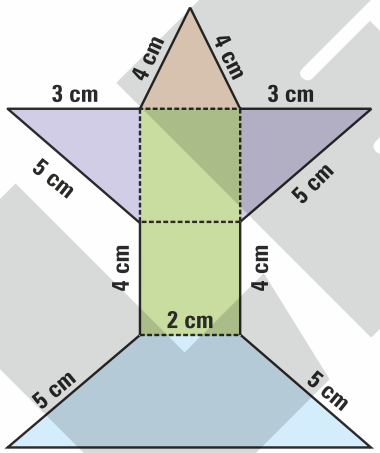
Directions: Solve the following multiple choice questions by choosing the most appropriate option.

1. A wire, 48 cm long, is cut equally into 4 pieces, which are bent to make 4 squares with equal sides. What is the length of each side of the square ?



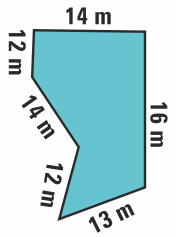
(1) 3 cm (2) 4 cm (3) 5 cm (4) 9 cm

2. Ravi made the given figure using wire. The length of the wire is _____.



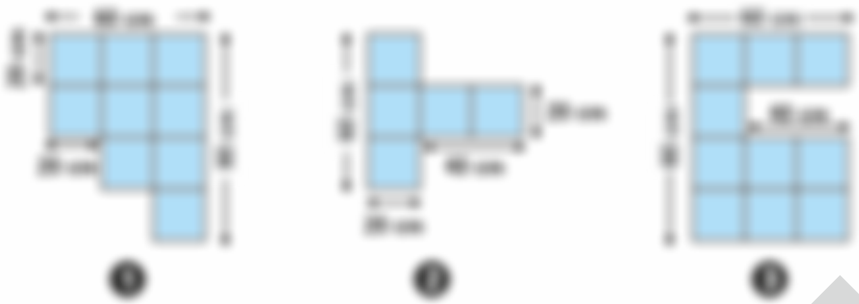
(1) 40 cm (2) 70 cm (3) 39 cm (4) 50 cm

3. What is the perimeter of the given figure ?



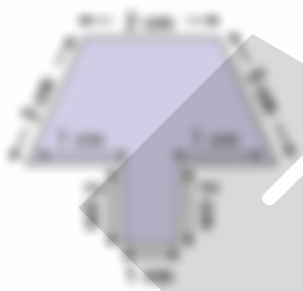
(1) 81 m (2) 91 m (3) 101 m (4) 71 m

4. Which of the following has the greatest perimeter?



(1) Only 1 (2) Only 2 (3) Only 3 (4) Both 2 & 3

5. Sneha used a wire to make the adjoining figure. What is the length of the wire?



(1) 15 cm (2) 12 cm (3) 13 cm (4) 14 cm

6. ORST is a rectangle. UVWX is a square. Find UT.

(1) 5 cm (2) 6 cm (3) 7 cm (4) 8 cm

7. The perimeter of the star is equal to the perimeter of the hexagon (all sides are equal). If each side of the hexagon is 20 cm long, then each side of the star is ____.

(1) 12 cm (2) 10 cm (3) 8 cm (4) 9 cm