SNBP International & Senior Secondary School Chikhali, Pune.

Affiliation No. 1130703 Academic session 2024-25

Grade - IV

NOTES - PT 3 Subject: MATHS

Prepared by: Priyanka Gupta LESSON – 8 Perimeter and Area

Pre activity – Lets Begin from T.B. (Pg. No. 136)



- Observe the pictures, and answer the following questions.
- Name the shape of Pool A. ____Square ____
- Name the shape of Pool B. <u>Rectangle</u>
- Are all the sides of pool B equal? ______No_____
- 2 Draw a swimming pool that is irregular in shape in the space provided.

TB Page no. 138

4 / MATHS /L-8/ PT III 1 | P a g e

Oconcrete Stage

Use a thread or a ruler to work out the perimeter.

Chessboard

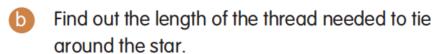
Hintometer: Using a ruler is not always possible to measure longer lengths. In such a case, we can use a thread to measure the desired length and then measure the thread using a ruler.

Pencil box

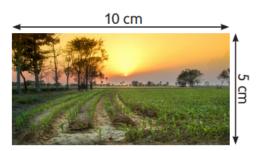
O Notebook



- 1 Look at the pictures, and answer the following questions.
- Rumy wants to paste golden lace around the given picture. Calculate the length of the lace she would need.
 30 cm



Hint: All the sides are equal.





Sam wants to put a wired fence around his triangular flower bed with equal sides. Find the perimeter of the flower bed.
 12 m



NAbstract Stage

1 Find the perimeter of the given square and rectangle.

0

Answer: 34 cm

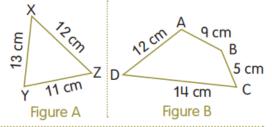


Answer: 32 cm

- 2 Look at the figures. Answer the following questions.
- The perimeter of Figure A is 36 cm

3

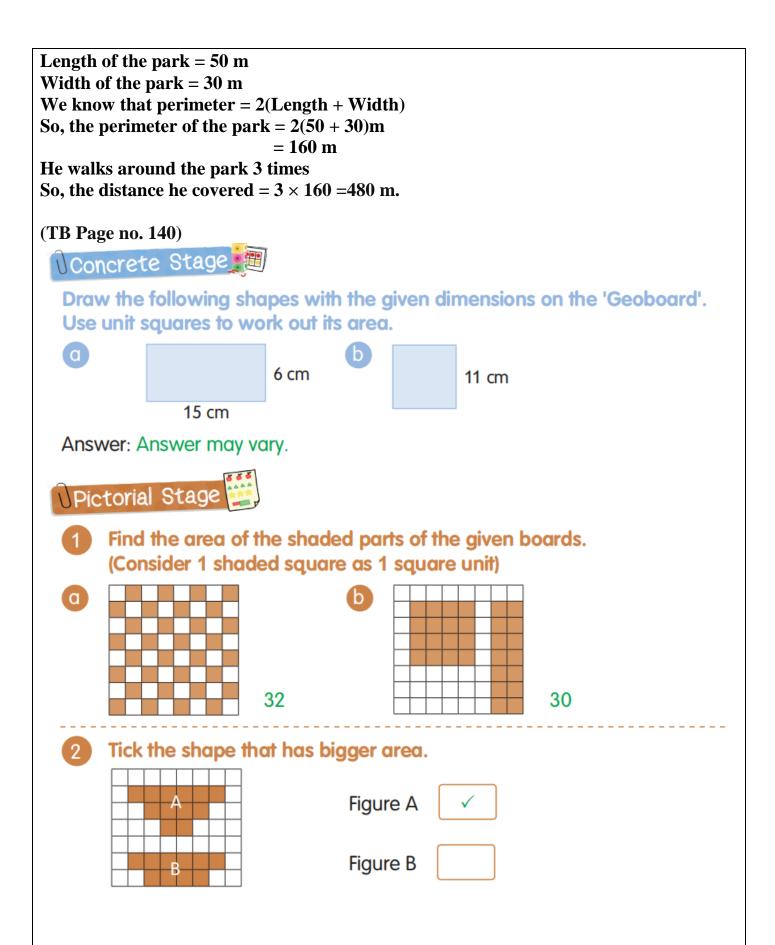
- The perimeter of Figure B is <u>40 cm</u>.
- The perimeter of Figure A is <u>lesser</u> than the perimeter of Figure B.



- Arun goes for the morning walk in a park. The length and width of the park are 50 m and 30 m respectively. He walks around the park three times. How much distance does he cover?
- Answer: 480 m

Solution:

4 / MATHS /L-8/ PT III 2 | P a g e

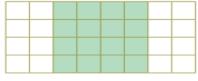


4 / MATHS /L-8/ PT III 3 | P a g e

NAbstract Stage

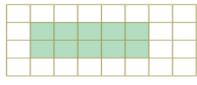
Draw a square and a rectangle on the given grids. Find their areas.





$$4 \times 4 = 16$$



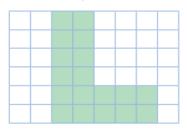


$$5 \times 2 = 10$$

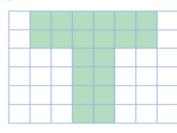


Draw the shapes T and L on the grids and find their areas.





b



Maths Fact: Perimeter is expressed in units.

Area is expressed in sq. units.

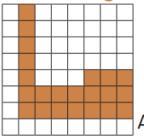
$$8 + 10 = 18 \text{ sq}$$
.

$$12 + 8 = 20 \text{ sq}$$
.

(TB PAGE No. 142)

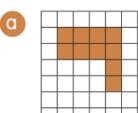
Pictorial Stage

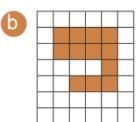
1 Observe two rectangles and a square on the grid to find the area of the combined figure.



Answer: 22

2 Which figure has bigger area?



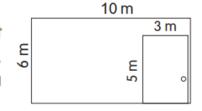


Answer: (b) is bigger area



NAbstract Stage

1 Gaurav wants to paint a wall and a door, what shape does the wall and the door resemble. Calculate the areas, and colour the larger area in pink and smaller area in brown.



Solution:

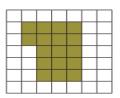
The shape of wall and door are Rectangle.

Area of wall = length \times width = $10m \times 6m = 60 \text{ m}^2 \text{ (pink)}$

Area of door = length \times width = $5m \times 3m = 15 m^2$ (brown)

Mitra spread a carpet on a floor. Find the area of the floor which is not covered by the carpet?

Answer: 32 sq.



Solution:

Area of floor = $7 \times 7 = 49$ square units

Area of carpet = $(3 \times 5) + 2 = 15 + 2 = 17$ square units

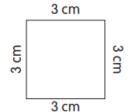
So, Area of floor not covered by carpet = 49 - 17 = 32 square units

(TB Page No. 143)

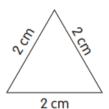
Delooming Questions of



Match each shape with its perimeter.

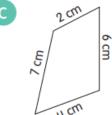




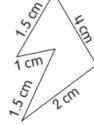


12 cm













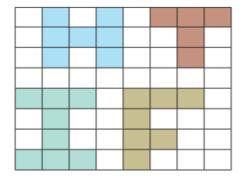




i.

6 cm

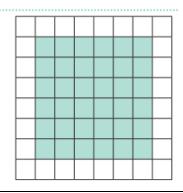
Find the areas of the following letters.



Н	sq. units
Т	5 sq. units
I	8 sq. units
F	sq. units

Mithran and Pavan cleaned the floor. Observe the figure, and find the area cleaned by Mithran and Pavan.

Answer: 36 unit sq.



Solution:

Area cleaned by Mithran and Pavan = $6 \times 6 = 36$ square units.



1 Complete the table, and find the areas of the figures.

Figure	Length	Width	Area
	5	3	15
	6	2	12
	3	3	٩

- 2 Find the area and the perimeter of the following.
- length = 12 cm; width = 10 cm A = 120 cm, P = 44 cm
- length = 100 cm; width = 50 cmA = 5000, P = 300 cm
- length = 19 m; width = 8 mA = 152 m, P = 54 cm
- d length = 25 cm; width = 4 cm A = 100, P = 58 cm

Post Activity:

Draw a rectangle that have an area of 48 sq. cm.

Draw a square that have an area of 36 sq. cm.

Draw a rectangle that have a perimeter of 20 cm.

Draw a square that have a perimeter of 80 cm.