



MATHS

BOOKS - NAND LAL PUBLICATION

MENSURATION



1. Find the area of the rectangle whose sides

are 10 cm, 12 cm respectively.

2. Area of rectangular garden of width 15 cm is

 $300 \mathrm{\,sq.m}$. Find the length of rectangle.



- 3. Length of rectangle 15 cm has its area
- 150 cm^2 . Find its breadth.



1. Find the perimeter of each of the following

figures:



2. Find the perimeter of each of the following

figures:





3. Find the perimeter of each of the following

figures:



4. Find the perimeter of each of the following

figures:



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



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6. Find the perimeter of each of the following

figures:



7. The lid of a rectangular box of sides 40 cm by 10 cm is sealed all around with tape. What is the length of the tape required?

8. A table-top measures 2 m 25 cm by 1 m 50 cm.What is the perimeter of the to of the table?

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9. What is the length of the wooden strip required to frame a photograph of length and breadth 32 cm and 21 cm respectively?

10. A rectangular piece of land measures 0.7 km by 0.5 km.Each side is to be fenced with 4 ows of wires.What length of the wire is needed?

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11. Find the perimeter of each of the following

shapes:

A triangle of sides 3 cm ,4 cm and 5 cm.

12. An equilateral triangle of side 9 cm.



13. An isosceles triangle with equal sides 8 cm each and third side 6 cm.Find perimeter of the triangle



14. Find the perimeter of a triangle with sides

measuring 10 cm ,14 cm and 15 cm.

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15. Find the peimeter of a regular hexagon with each side measuring 8m.

16. Find the side of the square whose perimeter is 20m.
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17. the perimeter of a regular pentagon is 100

centimeter. How long is each side?

18. A piece of string is 30 cm long.What will be the length of each side if the string is used to form:

a square?

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19. A piece of string is 30 cm long. What will be

the length of each side if the string is used to

form:

a square?



20. A piece of string is 30 cm long.What will be the length of each side if the string is used to form:

a square?

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21. Two sides of a triangle are 12 cm and 14 cm.The perimeter of the triangle is 36 cm.What is the third side?



23. Find the cost of fencing a rectanular park

of length 175 m and breadth 125 m at the rate

of Rs.12 per metre.

24. 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?

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25. What is the perimeter of each of the following figures? What do you infer from the answers?

26. What is the perimeter of each of the following figures? What do you infer from the answers?

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27. What is the perimeter of each of the following figures? What do you infer from the answers?

28. What is the perimeter of each of the following figures? What do you infer from the answers?

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29. Avneet buys 9 square paving slabs, each with a side of 1/2. He lays them in the form of a square.

Shari does not like his arrangement.She gets him to lay them out like a cross.What is the perimeter of her arrangement ?(The paving slabs must meet along complete edges:they cannot be broken.)





30. Avneet buys 9 square paving slabs,each with a side of 1/2.He lays them in the form of

a square.

Shari does not like his arrangement. She gets him to lay them out like a cross. What is the perimeter of her arrangement ? (The paving slabs must meet along complete edges: they cannot be broken.)





31. Avneet buys 9 square paving slabs, each with a side of 1/2. He lays them in the form of a square.

What is the perimeter of his arrangement? (The paving slabs must meet along complete edges:they cannot be broken.)





32. Avneet buys 9 square paving slabs, each with a side of 1/2. He lays them in the form of a square.

Shari does not like his arrangement. She gets him to lay them out like a cross. What is the perimeter of her arrangement ? (The paving slabs must meet along complete edges: they cannot be broken.)



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Exercise 10 2









3. Find the areas of the following figures by

counting squares.





4. Find the areas of the following figures by

counting squares.



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10. Find the areas of the following figures by

counting squares.



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14. Find the areas of the following figures by counting squares.



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Exercise 10 3

1. Find the areas of the rectangles whose sides

are:

3 cm and 4 cm.



2. Find the areas of the rectangles whose sides

are:

12 m and 21

3. Find the areas of the rectangles whose sides

are:

2 km and 3 km.

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4. Find the areas of the rectangles whose sides

are:

2 m and 70 cm.

5. Find the areas of the squares whose sides

are:

10 cm

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6. Find the areas of the squares whose sides

are:

14 cm

7. Find the areas of the squares whose sides

are:

5m.



8. The length and breadth of three rectangles

are a given below:

9 m and 6 m

9. The length and breadth of three rectangles

are a given below:

17 m and 3m

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10. The length and breadth of three rectangles

are a given below:

4 m and 14 m

11. the area of a rectangular garden 50 m long

is 300 sq.m. Find the width of the garden.



12. What is the cost of tiling a rectngular piece

of land 500 m long and 200 m wide at the rate

of Rs.8 per hundred sq.m.?



13. A table measures 2 m 25 cm by 1 m 50

cm.What is its area is square metres?

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14. A room is 4 m 20 cm long and 3 m 65 cm wide.How many square metres of carpet is needed to cover the floor of the room?



15. 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.



16. Five square flower beds each of sides 1.2 m are dug on a piece of land 4.8m long and 4.2 m wide.What is the area of the remaining part of land?

17. By splitting the following figures into rectangles, find their areas (The measures are given in centimetres).



18. By splitting the following figures into rectangles, find their areas (The measures are given in centimetres).



19. Split the following shapes into rectangles and find their areas. (The measure are given in

centimetres)



20. Split the following shapes into rectangles and find their areas. (The measure are given in

centimetres)



21. Split the following shapes into rectangles and find their areas. (The measure are given in

centimetres)



22. How many tiles with dimenstions 5 cm and

12 cm will be needed to fit in a region wose

length and breadth are respectively:

100 cm and 144 cm.



23. How many tiles with dimenstions 5 cm and

12 cm will be needed to fit in a region wose

length and breadth are respectively:

70 cm and 36 cm.

1. Answer the multiple choice questions.

In a rectangle if length is doubled and its breadth is halved then its area.

A. remains same

B. becomes half

C. doubles



2. Answer the multiple choice questions.

Area of rectangle 50 m long is 400 sq. m. Then

the width of garden is

A. 6 m

B. 10 m

C. 8 m



3. Answer the multiple choice questions.

The ratio of areas of two squares is 9:16 then

the ratio of their perimeters is

A. 4:3

B.3:4

C. 3:8



4. Answer the multiple choice questions.

Perimeter of pentagon is 30 cm then length of each side is

A. 5 cm

B. 4 cm

C. 6 cm



5. Answer the multiple choice questions.

If two plane figures A and B coincide with each

other then they have

A. equal areas

B. equal perimeter

C. equal area and perimeter both



6. Answer the multiple choice questions.

Area of rectangle of length 20 cm and breadth 5 cm is

A. $100cm^2$

 $\mathsf{B.}\,20cm^2$

 $\mathsf{C.}\,25cm^2$



7. Answer the multiple choice questions.

The perimeter of rectangle is 54 m and its

width is 12 m then length is

a. 14 m

b. 16 m

c. 15 m

A. 14 m

B. 16 m

C. 15 m

D.

Answer:

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8. Answer the multiple choice questions.

If the length of one side of a regular hexagon

is 1.4 cm then the perimeter of this figure is

a. 8.4 cm

b. 7.4 cm

c. 6.4 cm

A. 8.4 cm

B. 7.4 cm

C. 6.4 cm

D.

Answer:



Area of a closed plane figure is measured in



10. Fill in the blanks spaces

If the side of the rhombus is 7 cm then its

perimeter is _____.

The unit of measurement of perimeter is same

as that of _____.

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12. Fill in the blanks spaces

If the side of the square is halved then its

perimeter becomes _____

Perimeter of the closed plane figure is the

length of its _____.

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14. Fill in the blanks spaces

The amount of region enclosed by a plane

closed figure is called its _____



perimeter 20 cm are joined then the perimeter

of the figure shown is _____.

Equal sides of an isosceles triangle of side 15

cm has the perimeter 40 cm. Then the length

of the third side _____.

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17. State whether the given statements are true or false.

If area of rectangle and square are equal then

the perimeter of rectangle is less than that of

square.



18. State whether the given statements are true or false.

To find the cost of painting the wall we need

to find the perimeter of the wall.

19. State whether the given statements are

true or false.

Two congruent figures have equal areas.



20. State whether the given statements are true or false.

If the side of the square is doubled its perimeter is also doubled.

21. State whether the given statements are true or false.

If the square lies inside the rectangle then area of square is less than the area of rectangle.

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22. State whether the given statements are true or false.

Sum of the lengths of a polygon is called its

area.



23. State whether the given statements are true or false.

If two plane figures A and B coincide with each

other then they have equal areas but not

equal perimeters.



24. State whether the given statements are true or false.

While estimating the area of an irregular

figure, the Contribution Of 7 squares (1 cm ~ imes

1 cm) which are less than half filled is 0 $m cm^2$.

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Additional Questions For Practice Short Answer Type Questions **1.** If a ribbon of length 10 m and breadth 5 m is stitched around a rectangular table cloth making 2 rounds along it boundary, then what is the perimeter of the table cloth.

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2. How many square slabs each of side 9 cm

can cover the floor whose area is 1620 sq. m.
3. The side of the square is 9 cm, If this side is doubled. How many times will its area increase.

4. Perimeter of square is twice the perimeter

of triangle. Find the area of the square.

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Additional Questions For Practice Long Answer Type Questions

1. The cost of flooring at Rs. 25 per sq. m is Rs.

750. If the length of the room is 6 m. Find the

breadth of the room.



2. If the cost of fencing rectangular park at the rate of Rs. 7.50 per metre is Rs. 900 and breadth of park is 25. Find the length of the park.

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3. The perimeter of a rectangle is 36 cm. What will be the length and breadth (in natural numbers) of that rectangle whose area is (i) maximum, (ii) minimum



4. A circle is inscribed in a square. If the radius of circle is 5 cm. Find the perimeter of the square.

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Additional Questions For Practice Hots High Order Thinking Skill

1. Find the dimensions of the rectangle whose area is 24 cm^2 . How many rectangles can be formed.



Sample Paper For Practice

1. Answer the multiple choice questions.

If each side of a regular pentagon is 'a' then its

perimeter is

A. 4a

B. 5a

C. 6a

D.

Answer: 5a



2. Answer the multiple choice questions.

1 sq. cm is equal to

A. 100 sq. mm

B. 10 sq mm.

C. 1 cm

D. None

Answer: 100 sq mm



3. Answer the multiple choice questions.

Perimeter of rectangle is 50 m and width is 14

m. Its length is

A. 12 m

B. 13 m

C. 11 m

D. None

Answer: 11 m



4. Answer the multiple choice questions.

Area of the square field is 64 sq. m. then its

perimeter is

A. 32 m

B. 36 m

C. 45 m

D. None

Answer: 32 m

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5. State whether true or false.

To find the cost of fencing the field we find its

perimeter



6. State whether true or false.

If the side of the square is doubled then its

area is also doubled.



7. State whether true or false.

Number of tiles required to cover the wall is

 $\frac{\text{Area of tile}}{\text{Area of wall}}$





9. Fill in the blank spaces.

Perimeter of equilateral Δ of side x cm is



10. Fill in the blank spaces.

If the perimeter of square is 48 cm then the

area is _____



11. Fill in the blank spaces.

A circle can always be inscribed in a _____

polygon.

12. Fill in the blank spaces.

If the side of the square is doubled then its

area becomes _____ times.

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13. Fill in the blanks

200cm=__mm



14. If area of square is numerically equal to the

perimeter of the square. What is the length of

each side?



15. If the side of the square is halved. What can

you say about its area?



16. If the cost of fencing a square plot at the rate of Rs. 2.50 per m is Rs. 300. Then find the length of each side of the field.



17. Area of square field is $225~{
m m}^2$. Find the distance covered by Bulbul going round the

field three times.

18. What is the cost of tiling a rectangular plot of length 600 m and breadth 400 m in the rate of Rs. 12 per hundred square metre.

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Solution Of Textual Questions Try These

1. Find the perimeter of a square of side 5 cm

2. Find the area of square having perimeter

equal to 16m.



3. Meera went to a park 150 m long and 80 m

wide .She took one cimplete round of it.What

is the distance covered by her?







5. Find the perimeter of the following figure:



6. Find the perimeter of the following figure:



7. Find the perimeter of the following figure:





8. Find the perimeter of the following rectangles

Length of Rectangle	Breadth of Rectangle	Perimeter by adding all the sides	Perimeter by 2 × (Length + Breadth)
25 cm	12 cm	= 25 cm + 12 cm + 0.5 cm + 12 mm = 74 cm	= 2 × (25 cm + 12 cm) = 2 × 37 cm = 74 cm
0.5 cm	0.25 cm	0.5 cm + 0.25 cm ÷ 0.5 m + 0.25 m = 0.60 cm	= 2× (0.5 cm + 0.25 m) = 2 × 0.30 m = 0.60 m
18 cm	15 cm	18 cm +15 cm + 18 cm + 15 cm = 66 cm	= 2 × (18 cm + 15 cm) = 2 × 33 cm = 66 cm



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9. Find the area of rectangle having length and

breadth equal to 5m and 3m respectively.

10. Find the area of the floor of your classroom.
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11. Find the area of any one door in your house.



12. Calculate the areas of few squares by assuring length of one side of squares by yourself.





1. Draw any circle and mark points A, B and C such that

C is in the interior of the circle .



