# ©゙" doubtnut 

India's Number 1 Education App

## MATHS

## NCERT - NCERT

## MATHEMATICS(ENGLISH)

## MENSURATION

Exercise 103

1. What is the cost of tiling a rectangular plot
of land 500 m long and 200 m wide at the rate
of Rs 8 per hundred sq m.?

## D Watch Video Solution

# 2. The area of a rectangular garden 50 m long 

 is 300 sq m . Find the width of the gardenA. $6 m$
B. $8 m$
C. $16 m$
D. $9 m$

## Answer: A

## - Watch Video Solution

3. A room is 4 m long and 3 m 50 cm wide. How many square metres of carpet is needed to cover the floor of the room?

## D Watch Video Solution

4. A table-top measures 2 m by 1 m 50 cm .

What is its area in square metres?
5. Find the areas of the rectangles whose sides are :(a) 3 cm and 4 cm (b) 12 m and 21 m (c) 2 km and 3 km (d) 2 m and 70 cm

## - Watch Video Solution

6. The length and breadth of three rectangles are as given below :(a) 9 m and $6 \mathrm{~m} \quad$ (b) 17 m
and $3 \mathrm{~m} \quad$ (c) 4 m and 14 mWhich one has the largest area and which one has the smallest?

## D Watch Video Solution

7. Find the areas of the squares whose sides are :(a) 10 cm $\begin{array}{ll}\text { (b) } 14 \mathrm{~cm} & \text { (c) } 5 \mathrm{~m}\end{array}$

## D Watch Video Solution

8. Five square flower beds each of sides 1 m are dug on a piece of land 5 m long and 4 m wide.

What is the area of the remaining part of the land?

## D Watch Video Solution

9. 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.

D Watch Video Solution
10. How many tiles whose length and breadth
are 12 cm and 5 cm respectively will be needed
to fit in a rectangular region whose length and breadth are respectively:(a) 100 cm and 144 cm (b) 70 cm and 36 cm .

## D Watch Video Solution

11. By splitting the following figures into rectangles, find their areas(The measures are given in centimetres).
12. Split the following shapes into rectangles and find their areas. (The measures are given in centimetres)

## - Watch Video Solution

Exercise 101

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

## D Watch Video Solution

2. Two sides of a triangle are 12 cm and 14 cm .

The perimeter of the triangle is 36 cm . What is its third side?

## D Watch Video Solution

3. Avneet buys 9 square paving slabs, each with
a side of $\frac{1}{2} \mathrm{~m}$. He lays them in the form of a
square. (a) What is the perimeter of his arrangement [Fig 10.7(i)]? (b) Shari does not
like his arrangement. She gets him to lay them out like a cross. What is the perimeter of her arrangement [(Fig 10.7 (ii)]? (c) Which has greater perimeter? (d) Avneet wonders if there is a way of getting an even greater perimeter.

Can you find a way of doing this? (The paving slabs must meet along complete edges i.e they cannot be broken.)
4. A table-top measures 2 m 25 cm by 1 m 50 cm . What is the perimeter of the table-top?

## D Watch Video Solution

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

## D Watch Video Solution

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

- Watch Video Solution

7. Find the perimeter of a triangle with sides
measuring $10 \mathrm{~cm}, 14 \mathrm{~cm}$ and 15 cm .
( Watch Video Solution
8. Find the side of the square whose perimeter
is 20 m .

D Watch Video Solution
9. Find the perimeter of a regular hexagon with each side measuring 8 m .

D Watch Video Solution
10. Find the perimeter of each of the following
shapes :(a) A triangle of sides $3 \mathrm{~cm}, 4 \mathrm{~cm}$ and 5
cm.(b) An equilateral triangle of side 9 cm .(c)

An isosceles triangle with equal sides 8 cm each and third side 6 cm

## D Watch Video Solution

11. A piece of string is 30 cm long. What will be the length of each side if the string is used to
form :(a) a square?
(b) an equilateral triangle? (c) a regular hexagon?

## D Watch Video Solution

12. A rectangular piece of land measures 0.7
km by 0.5 km . Each side is to befenced with 4
rows of wires. What is the length of the wire needed?
13. What is the length of the wooden strip required to frame a photograph of length and breadth 32 cm and 21 cm respectively?

## D Watch Video Solution

14. 8. Find the perimeter of the regular
hexagon with each side measuring $8 m$ (9).Find
the side of a square whose perimeter is 20 m (
10). The perimeter of a regular pentagon is 100 cm . How long is its each side?
1. 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?

## D Watch Video Solution

16. Find the cost of fencing a rectangular park of length 175 m and breadth 125 m at the rate of Rs 12 per metre.Sweety runs around a
square park of side 75 m . bulbul runs around a rectangular park of length 60 m and breadth 45 m . who covers less distance?

## D Watch Video Solution

Solved Examples

1. The area of a rectangular piece of cardboard
is 36 sq cm and its length is 9 cm . What is the
width of the cardboard?
2. Find the area in square metre of a piece of cloth 1 m 25 cm wideand 2 m long.

## D Watch Video Solution

3. Bob wants to cover the floor of a room 3 m
wide and 4 m longby squared tiles. If each square tile is of side 0.5 m , then find the number of tiles required to cover the floor of the room.
4. Find the area of a square plot of side 8 m .

## D Watch Video Solution

5. Find the area of a rectangle whose length and breadth are 12 cm and 4 cm respectively
6. By counting squares, estimate the area of
the figure 10.9 a.

D Watch Video Solution
7. By counting squares, estimate the area of the figure 10.9 b .

D Watch Video Solution
8. Find the area of the shape shown in the figure 10.10.

## D Watch Video Solution

9. A farmer has a rectangular field of length and breadth 240 m and 180 m respectively. He wants to fence it with 3 rounds of rope as shown in figure 10.4. What is the total length of rope he must use?
10. Find the cost of fencing a rectangular park of length 250 m andbreadth 175 m at the rate of Rs 12 per metre.

## D Watch Video Solution

11. Find the distance travelled by Shaina if she
takes three rounds ofa square park of side 70 m.
12. Pinky runs around a square field of side 75 m , Bob runs around a rectangular field with length 160 m and breadth 105 m . Who covers more distance and by how much?

## - Watch Video Solution

13. Shabana wants to put a lace border all around a rectangular tablecover (Fig 10.3), 3 m long and 2 m wide. Find the length of the lace required by Shabana.
14. An athlete takes 10 rounds of a rectangular park, 50 m long and 25 m wide. Find the total distance covered by him.

## - Watch Video Solution

15. Find the perimeter of a rectangle whose length and breadth are150 cm and 1 m respectively
16. Find the perimeter of a regular pentagon with each side measuring 3 cm .

## - Watch Video Solution

17. The perimeter of a regular hexagon is 18 cm . How long is its oneside?

D Watch Video Solution

1. 2. Find the areas of the following figures by counting square:
( Watch Video Solution
