MATHS

BOOKS - MBD

MENSURATION

Example

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1. Measure and wrie the length of tthe four sides of the top of your study table.

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2. Measure and write the lengths of the four sides of a page of your notebook.

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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?
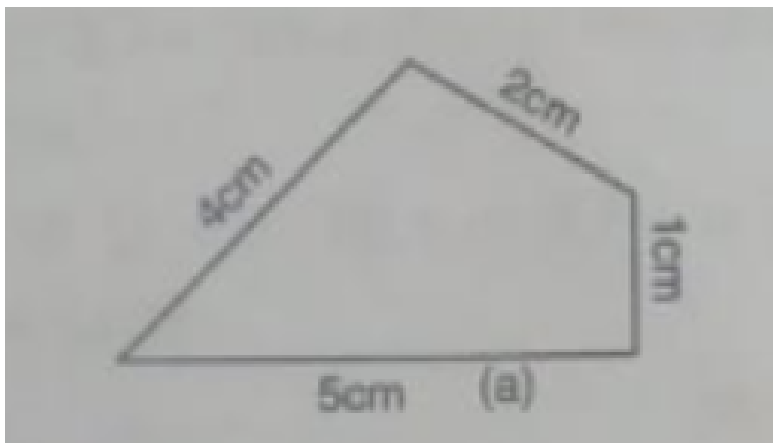
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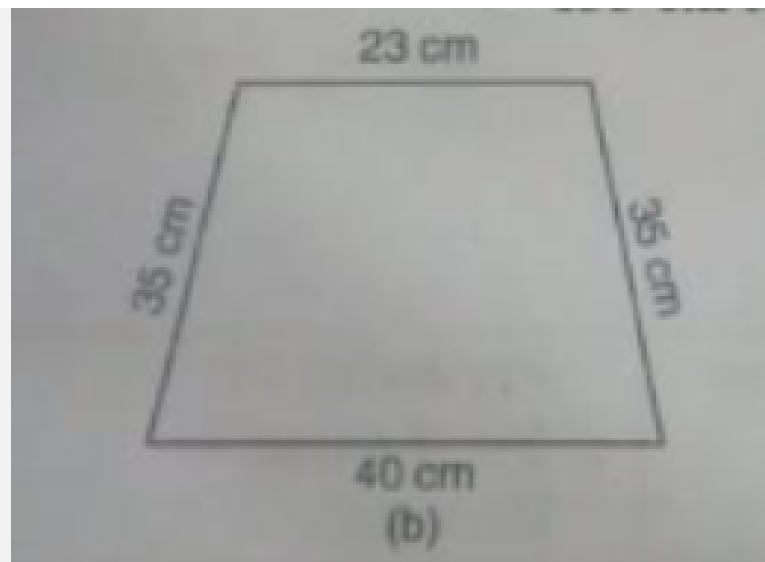
4. Find the perimeter of the following rectangles:

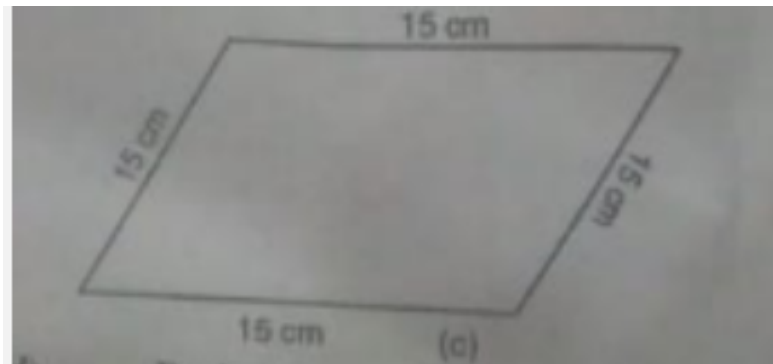**5.** Find the perimeter of each of the following figures:

4cm

2cm

1cm

5cm   (a)

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

23 cm

35 cm

35 cm

40 cm

(b)

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

15 cm

15 cm

15 cm

15 cm

(c)

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

(d)
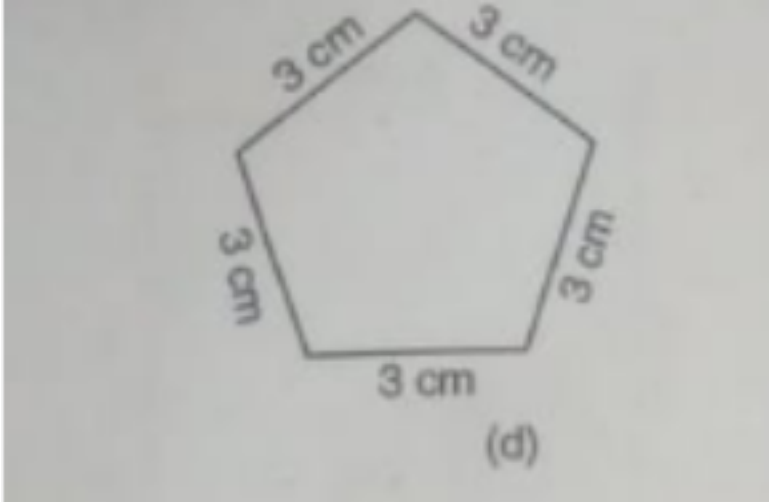
9. Find the perimeter of each of the following figures

A square of side 10cm
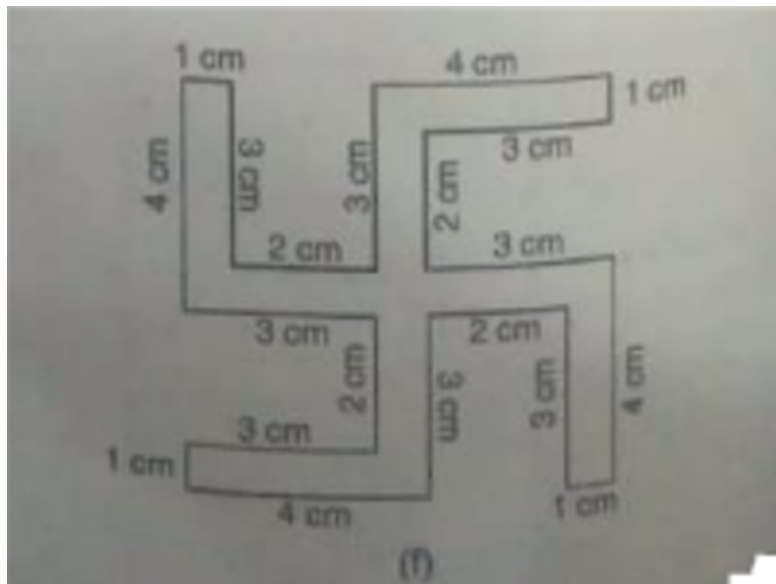
10. Find the perimeter of each of the following figures:

11. 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?

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

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14. 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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15. Find the perimeter of each of the following shapes:

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

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16. An equilateral triangle of side 9 cm.

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

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18. Find the perimeter of a triangle with sides measuring 10 cm ,14 cm and 15 cm.

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

20. Find the side of the square whose perimeter is 20m.

21. the perimeter of a regular pentagon is 100 centimeter.How long is each side?

22. 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?

23. an equilateral triangle?

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24. what is a regular hexagon?

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

26. Find the cost of fencing a square park of side 250 m at the rate of Rs.20 per metre.

27. Find the cost of fencing a rectanular park of length 175 m and breadth 125 m at the rate of Rs.12 per metre.

28. 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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29. What is the perimeter of each of the following figures?What do you infer from the answers?
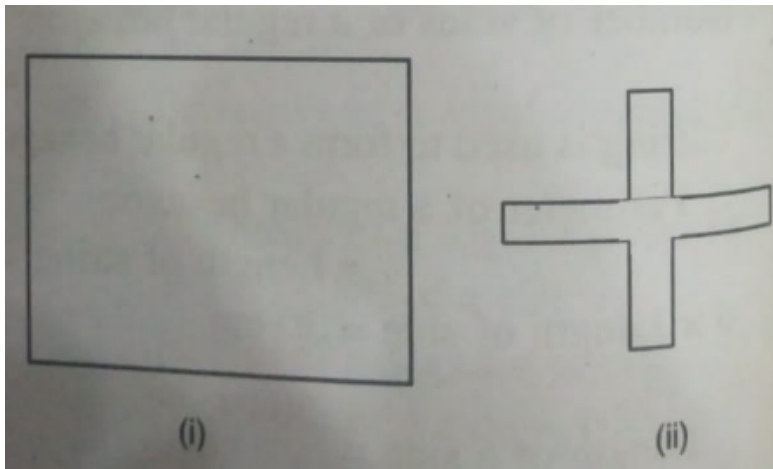
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30. Avneet buys 9 square paving slabs,each with a side of $1/2$.He lays them in the form of a square.

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

(i)   (ii)

31. 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.)

(i)   (ii)

32. 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?

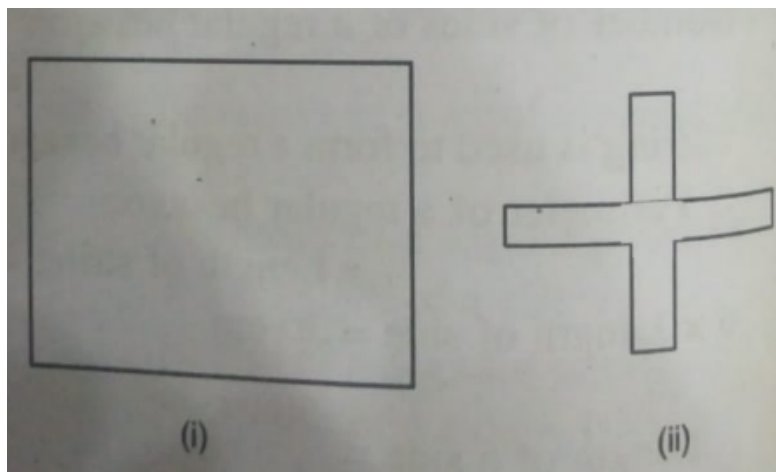(The paving slabs must meet along complete edges:they cannot be broken.)

(i)   (ii)

33. 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.)
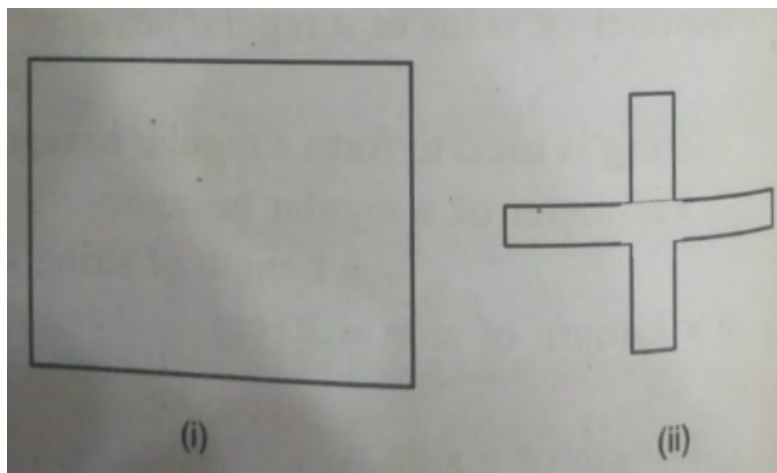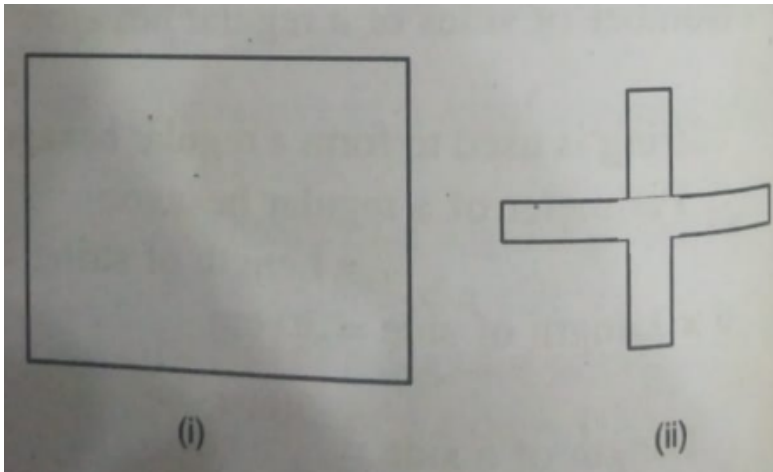

(i)   (ii)

34. Find the areas of the rectangles whose sides are:

3 cm and 4 cm.

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35. Find the areas of the rectangles whose sides are:

12 m and 21

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36. Find the areas of the rectangles whose sides are:

2 km and 3 km.

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37. Find the areas of the rectangles whose sides are:

2 m and 70 cm.

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38. Find the areas of the squares whose sides are:

10 cm

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39. Find the areas of the squares whose sides are:

14 cm

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40. Find the areas of the squares whose sides are:

5m.

41. A rectangles have the following dimensions:

9m and 6 m

Find area.

42. A rectangles have the following dimensions:

3 m and 17 m

Find area

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43. A rectangles have the following dimensions:

4 m and 14 m.

Find its area.

44. the area of a rectangular garden 50 m long

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

45. 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.?

46. A table measures 2 m 25 cm by 1 m 50 cm.What is its area is square metres?

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47. 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?

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48. 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.

49. 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?

50. The following figures have been split into rectangles.Find their areas.(The measures are given in centimetres).

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51. 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 .

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52. 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.

Exercise

1. 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?

2. Shabana wants to put a lace border all around a rectangular table cover,3m long and 2 m wide.Find the length of the lace required by Shabana.

3. An athlete takes 10 rounds of a rectangular park 50 m long and 25 m wide.Find the total distance covered by him?

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4. Find the perimeter of a rectangle whose length and breadth are 150 cm and 1 m respectively.

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5. A framer has a rectangular field of length and breadth 240 m and 180 m respectively.He wants to fence it with 3 rounds of rope.What is the total length of fope he must use?

6. Find the cost of fencing a rectangular park of length 250 m and breadth 175 m at the rate of Rs. 12 per m.

7. Find the distance travelled by Shaina if she takes three rounds of a square park of side 70m.

8. Pinky runs around a square field of side 75 m ,Bob runs around a rectangular field with length 160m and breadth 105m.Who covers more distance and by how much ?

9. Find the perimeter of a regular pentagon with each side measuring 3 cm.

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10. The perimeter of a regular hexagon is 18 cm.How long is one side?

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11. Find the area of rectangle whose length and breadth are 12 cm and 4 cm respectively.

12. Find the area of a square plot of side 8m.

13. 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?

14. The length of one side of a few squarres

are given:

find their areas.

Length of one side	Area of the square
3 cm	.....
7 cm	.....
5 cm	.....

15. The dimensions of a rectangles are 5 cm and 4 cm:

Find their areas.

16. Find the area in square metre of a piece of cloth 1m 25 cm wide and 2m long.

17. Bob wants to cover a room $3m$ wide and $4m$ long by squared tiles. If each square tile is side $0.5m$,then find the number of tiles required to cover the floor of the room.

A. 46 tiles

B. 52 tiles

C. 50 tiles

D. 48 tiles

Answer: D

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18. How many cm^2 are in $1m^2$?

A. 1000

B. 100

C. 10000

D. 10

Answer: C

19. The distance covered along the boundary forming a closed figure when you go round the figure once is called its:

A. Length

B. Perimeter

C. Breadth

D. Area

Answer: B

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20. The amount of surface enclosed by a closed figure is called its:

A. Perimeter

B. Volume

C. Area

D. None of these.

Answer:

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21. the formula to find perimeter of a rectangle is :

A. Length + Breadth

B. 2(Length+Breadth)

C. Lenth - Breadth

D. Length xx breadth.

Answer:

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22. The formula to find perimeter of a square is :

    A. $4 \times$ side

    B. $3 \times$ side

    C. $2 \times side$

    D. $5 \times$ side.

Answer:

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23. The formula to find area of equilateral triangle is :

    A. $4 \times$ side

    B. $3 \times$ side

    C. $2 \times side$

    D. $5 \times$ side.

Answer:

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24. The formula to find area of a rectangle is :

A. $4 \times$ side

B. 2 (Length+Breadth)

C. Lenth - Breadth

D. Side xx Side.

Answer:

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25. The formula to find area of a square is :

A. side xx side

B. 4 xx side

C. Lenth - Breadth

D. 2(Length + Breadth)

Answer:

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26. Find the distance travelled by Shaina if she takes three rounds of a square park of side 70m.