MATHS

BOOKS - SUBHASH PUBLICATION

MENSURATION

Exercise

1. Find the Perimeter of each of the following figures:
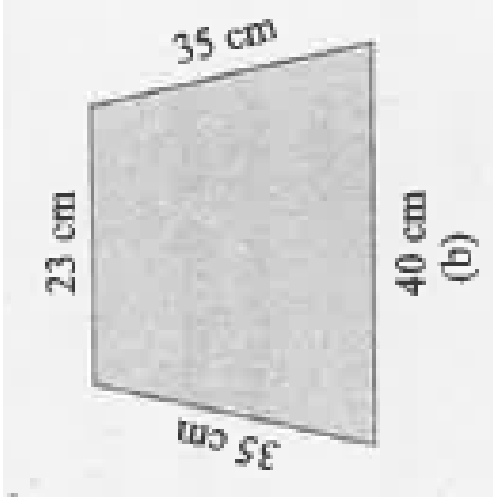
(a)
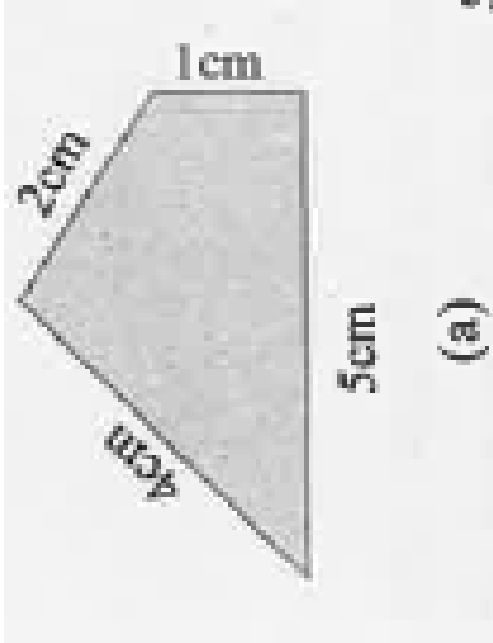
(a)

1cm

2cm

5cm

4cm

2. Find the Perimeter of each of the following figures:

(b)

35 cm

23 cm

40 cm

(b)

35 cm

3. Find the Perimeter of each of the following figures: (

c)

15 cm
15 cm
15 cm
15 cm

(c)
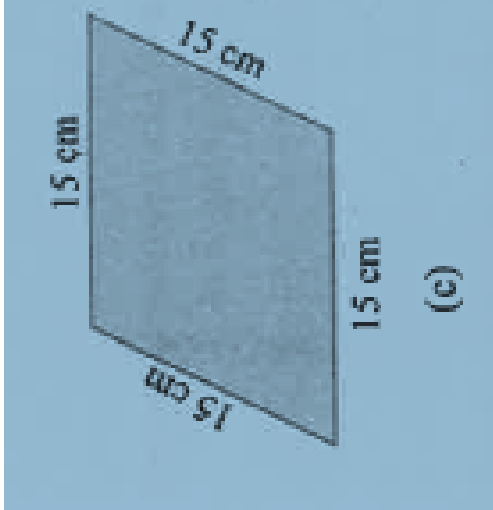
4. Find the Perimeter of each of the following figures:

(d)

4 cm
4 cm
4 cm
4 cm
4 cm

(d)
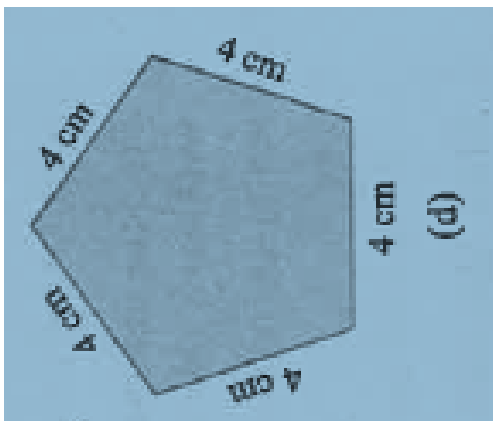
5. Find the Perimeter of each of the following figures:

(e)

Regular Closed Figures Figures having all the sides of equal length and all the angles of equal measure are known as regular closed figures. Therefore a square and an equilateral triangle are regular closed figures. Problem: Find the perimeter of each of ...

6. 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 requied?

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

8. What is the length of the wooden stirp required to frame a photograph of length and breadth 32 cm and

21 cm respectively?

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

10. Find the perimeter of each of the following shapes:

(a) A triangle of sides 3 cm, 4 cm and 5 cm.

11. Find the perimeter of each of the following shapes:

(b) An equilateral triangle of side 9 cm.

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12. Find the perimeter of each of the following shapes:

(c) An issosceles triangle with equal sides 8 cm each and third side 6 cm.

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

14. Find the perimeter of a regualr hexagon with each side neasuring 8 m.

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

16. The perimeter of a regular pentagon is 100 cm. How long is its each side?

17. 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?

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

equailateral triangle?

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

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

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

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22. Find the cost of fencing a rectangular park of length 175 m and breadth 125 m at the rate of ₹ 12 per metre.

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23. Sweety runs around a square park of side 75m. Bulbul runs around a rectangular park with length 60 m and breadth 45. Who covers less distance?
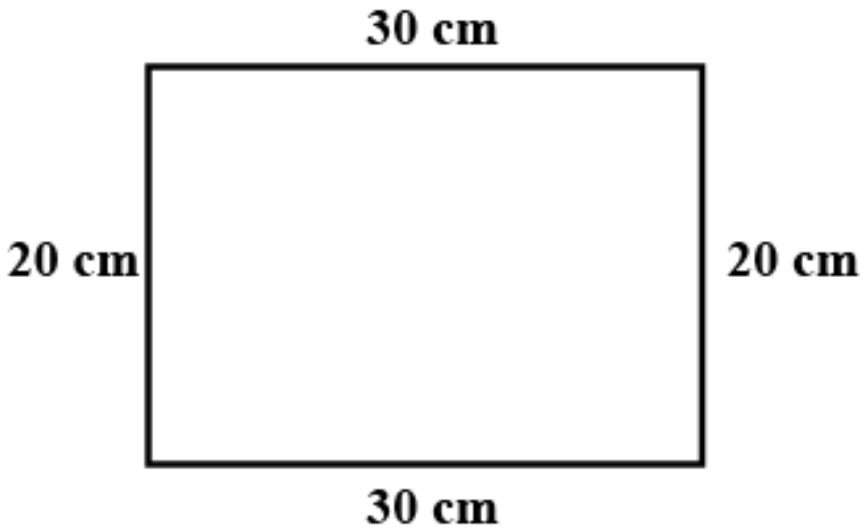
24. What is the perimeter of each of the following figures? What do you infer from the answers? (a)

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

30 cm

20 cm ⬜ 20 cm

30 cm

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

10 cm

40 cm

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

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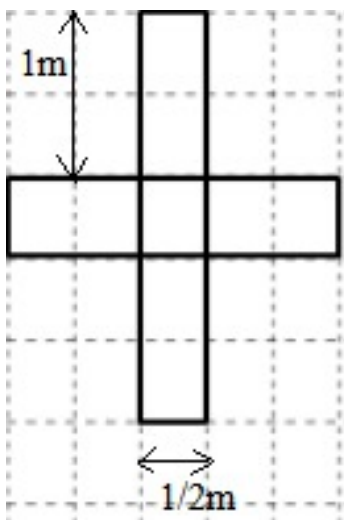**28.** Avneet buys 9 square paving slabs, each with a side of 1/2 m. He lays them in thr form of a square.

(a) What is the permeter of his arrangement [Fig 10.7(i)]?

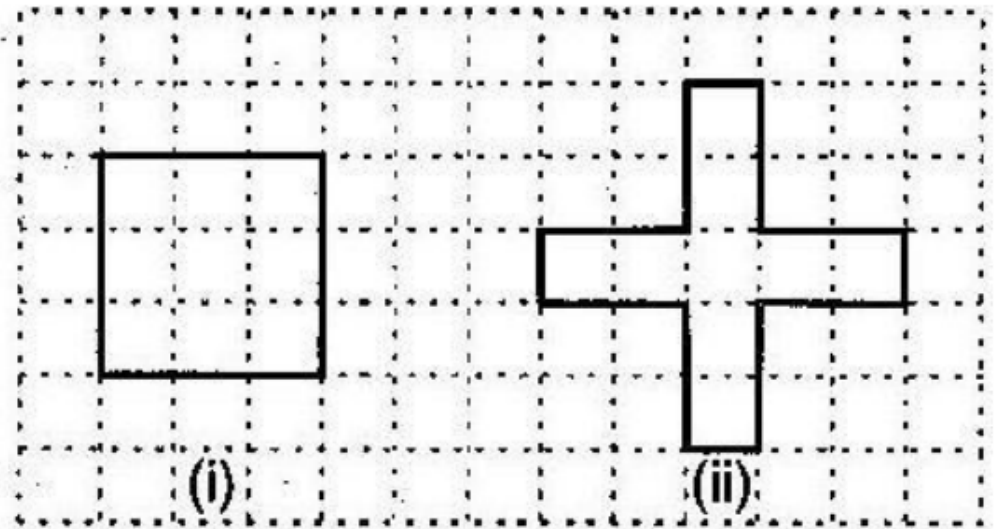**29.** Avneet buys 9 square paving slabs, each with a side of 1/2 m. He lays them in thr form of a square.

(b) Shari does not like his arrangement. She gets him to lay them out like a corss. What is the perimeter of her arrangement [(Fig 10.7(ii)]?

30. Avneet buys 9 square paving slabs, each with a side

of 1/2 m. He lays them in thr form of a square.

(c) Which has greater perimeter?

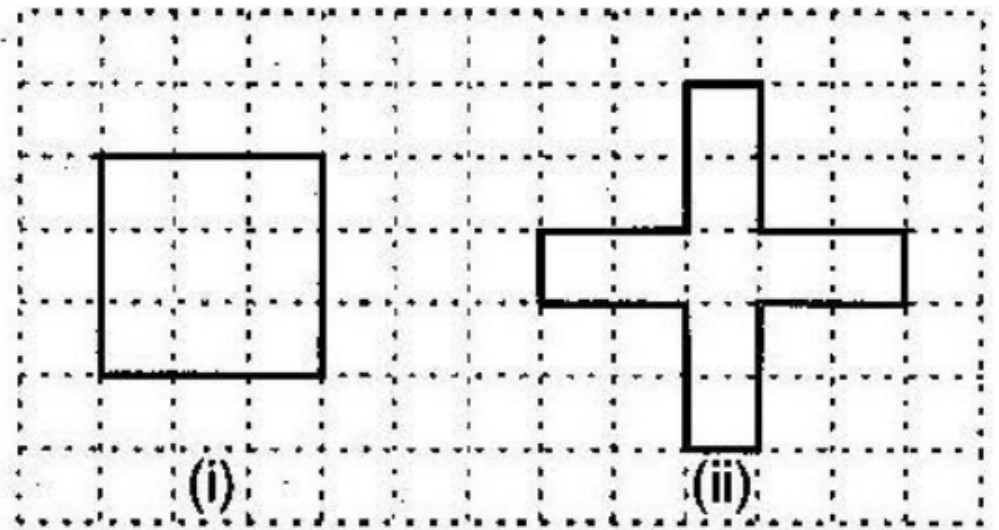**31.** Avneet buys 9 square paving slabs, each with a side of 1/2 m. He lays them in thr form of a square.

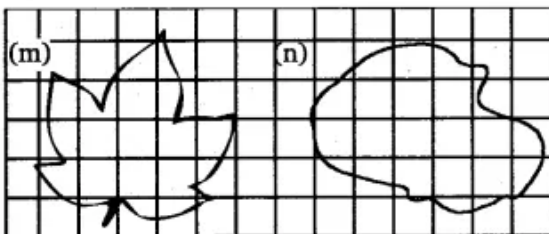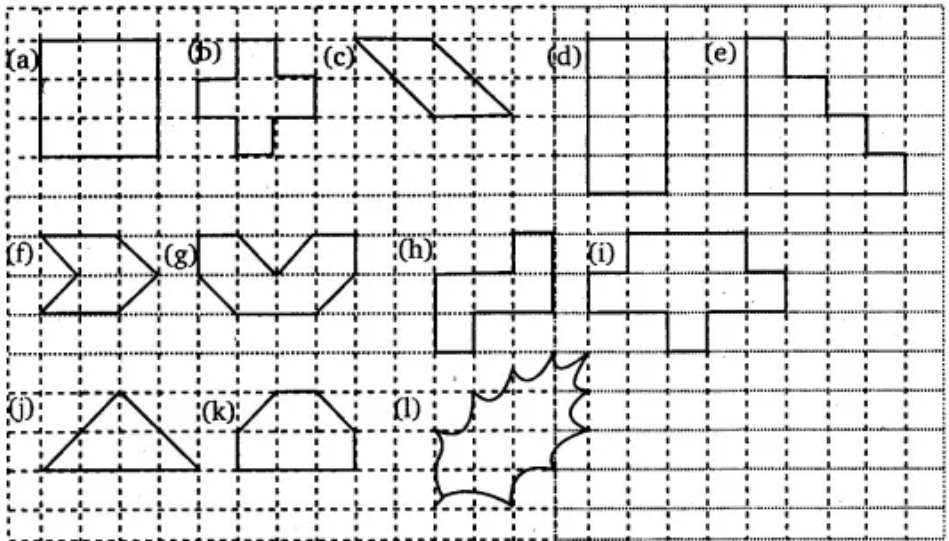(d) Avneet wonders if there is a way of getting an even greater perimeter. Can you find a way of doing this ? (The paving slabs must meet along complete edges i.e. they cannot be broken.)

(i)   (ii)

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32. Find the areas of the following figures by counting square:

(a),(b),(c), (d), (e), (f), (g), (h), (i), (j), (k), (l),(m),(n)

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

(a) 3 cm and 4 cm

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

(b) 12m and 21 m

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

c) 2 km and 3km

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

(d) 2m amd 70 cm

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37. Find the areas of the squares whose sides are : (a)

10 cm

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38. Find the areas of the squares whose sides are : (b)

14 cm

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39. Find the areas of the squares whose sides are : (c)

5 cm

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40. The length and breadth of rectangle is as given below : (a) 9m and 6 m Find the area.

41. The length and breadth of rectangle is as given below : (b) 17m and 3 m Find the area.

42. The length and breadth of three rectangles are as given below : (c) 4m and 14 m Which one has largest area and which one has the smallest ?

43. The area of a rectangular garden 50 m long is 300 sq m. Find the width of the garden.

44. What is the cost of tilling a rectangular plot of land 500 m long and 200 m wide at the rate of ₹ 8 per humdred sq m. ?

45. A table-top measurs 2 m by 1 m 50 cm. What is its area in square metrea ?

46. 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?

47. 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 flor that is not carpeted.
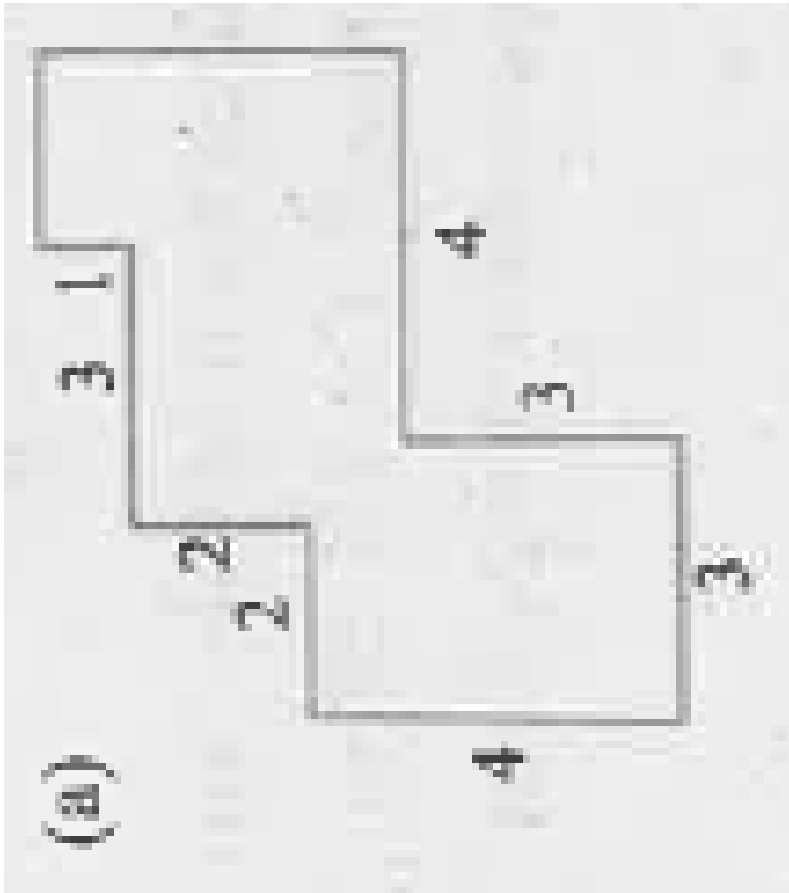
48. Five square flower beds each of sides 1 m are dug on a piece of land 5 m long and 4 m wide. What is the area of the remaining part of the land?

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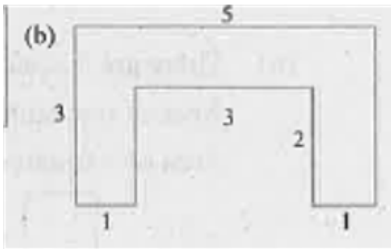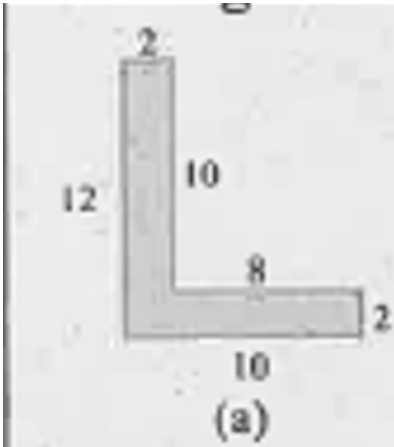
centimetres).

(a)

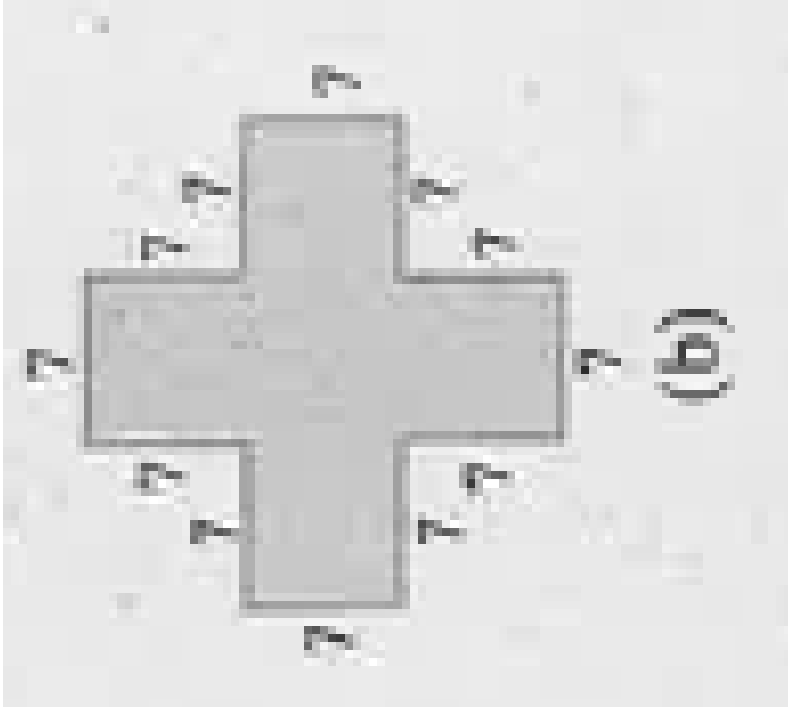**50.** By splitting the following figures into rectangles, find their areas (The measures are given in centimetres).

(b)

51. Split the following shapes into rectangles and find their areas. (The measures are given in centimetres)

(a)

(a)

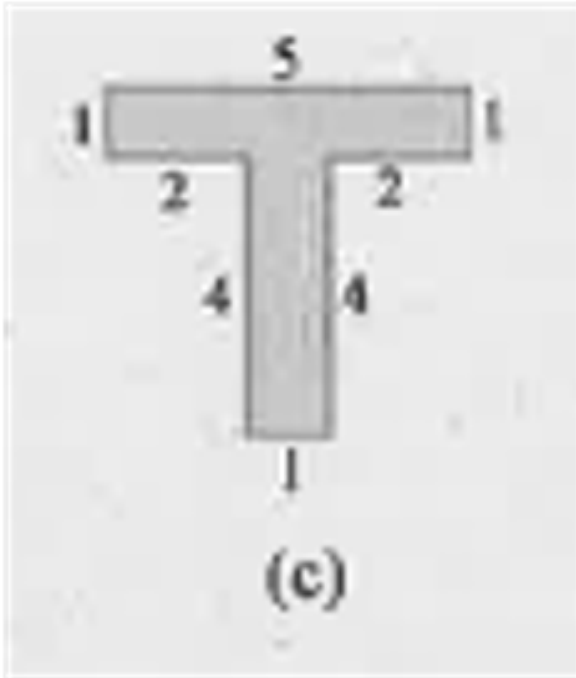**52.** Split the following shapes into rectangles and find their areas. (The measures are given in centimetres)

53. Split the following shapes into rectangles and find

their areas. (The measures are given in centimetres) (c

)

(c)

54. 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 breath are respectively: (a) 100 cm and 144 cm

55. 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 breath are respectively: (b) 70 cm and 36 cm.