doubtnut
India's Number 1 Education App

MATHS

NCERT - NCERT MATHS(TELUGU)

PERIMETER AND AREA

Exercise

1. Find the perimeter : A table with sides equal to 30cm, 15cm, 30cm, and 15cm respectively.

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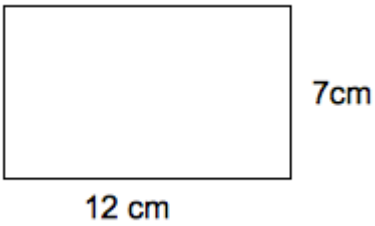
2. Measure the length of the sides of your text book cover. Find its perimeter.use the figure below.



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3. Find the perimeter: Around a rectangular park of sides 100m and 70m a wire has to be put. the cost of the wire is ₹20 per meter. what is the total cost of the wire?

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4. - A chess board of each side 34cm.find its perimeter

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5. .- A crayers box of each side 10cm.Find its perimeter

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6. .- The dice with base length 8cm. Find its perimeter.

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7. A square picture frame has sides of 0.75meters. If the cost of a coloured paper is ₹20 per meter, what the cost of putting coloured paper around the frame?

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8. There is a string of length 44cm. How many different rectangles with positive integers as length and breath can be made with this string?

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9. If I have a stringh 41cm long I can make a rectangle using the string completely? Give reasons.

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10. Find the perimeter of a regular pentagon of side 8cm.

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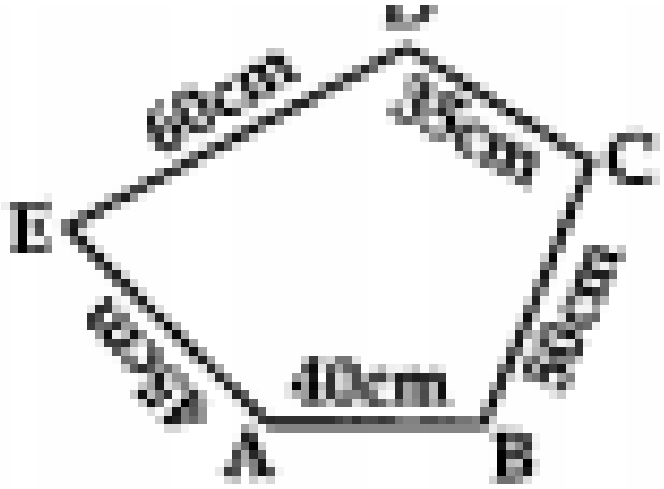
11. Find the perimeter



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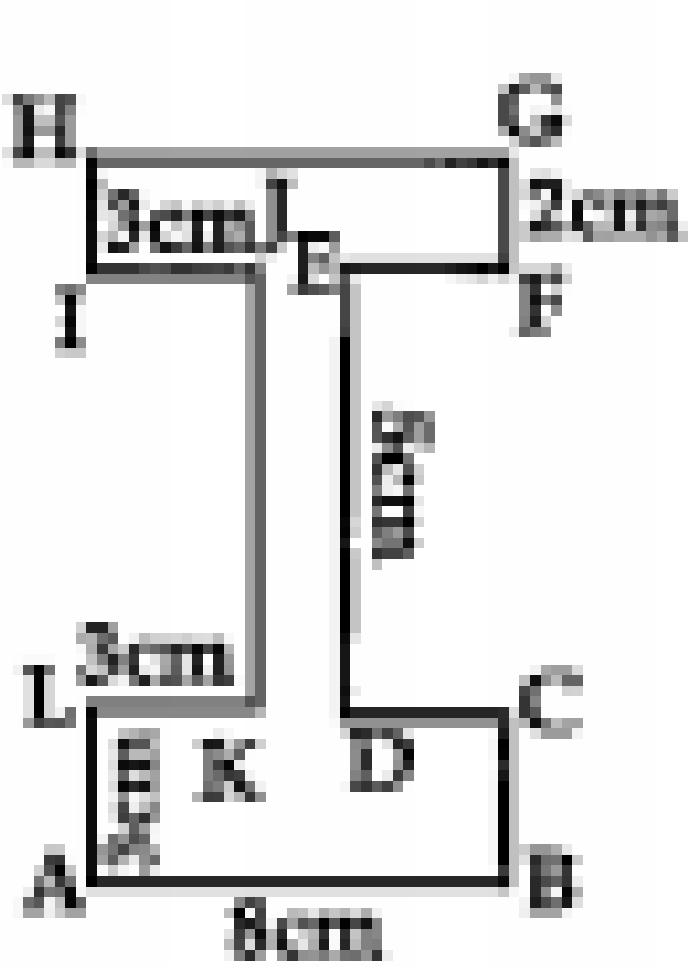
12. Find the perimeter



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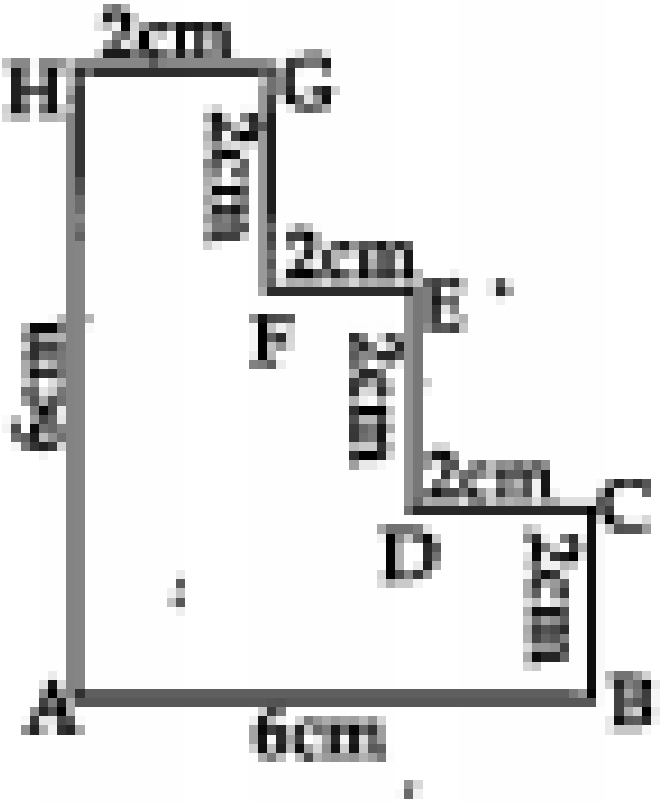
13. Find the perimeter



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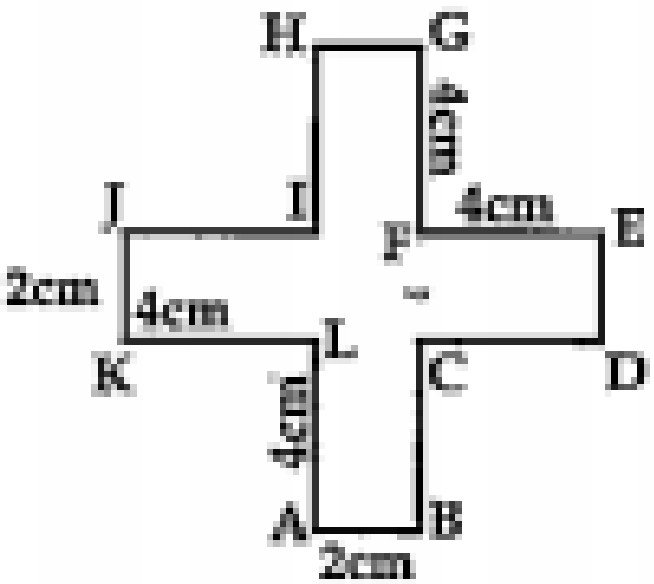
14. Find the perimeter



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15. How many different rectangles can you make with a 24cm long string with integral sides and what are the sides of those rectangles in cm?

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16. A flower bed is in the shape of a square with the sides 3.5m. Each side isa fenced with 4 rows of ropes. Find the cost of the rope required at ₹15 per meter.

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17. A piece of wire is 60cm long. What will be the length of the each side if the string is used to form: An equilateral triangle

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18. A piece of wire is 60cm long. What will be the length of the each side if the string is used to form: A square

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19. A piece of wire is 60cm long. What will be the length of the each side if the string is used to form: A regular hexagon

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20. A piece of wire is 60cm long. What will be the length of the each side if the string is used to form: A regular pentagon

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21. Bunty and bubbly go for jogging every morning. Bunty goes around a square park of side 80m. Bubly goes around a rectangular park with length 90m and breadth 60m. If they both take 3 rounds who covers greater distance and by how much?

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

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23. Find the perimeter of each of the following shapes: A triangle of sides 3cm, 4cm, and 5cm.

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24. Find the perimeter of each of the following shapes: An equilateral triangle of side 9 cm.

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25. Find the perimeter of each of the following shapes: An isolation Triangle with equal sides 8cm each and third side of 6 cm.

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26. The length of a rectangle is twice of its breadth . If its perimeter is 48cm, find the dimension of the rectangle?

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27. Draw to different rectangles having the same perimeter. Compare their areas Are they same? Can you draw two different square having the same perimeter.

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28. The length of one side of few squares are given. Find their areas using graph paper - 4 cm

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29. The length of one side of square is given. Find their area - 6cm

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30. The length of one side of few squares are given. Find their areas using graph paper - 2cm

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31. The length of one side of few squares are given. Find their areas using graph paper - 8cm

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32. Find the area of a square of side of length 5cm using graph .Compare the results with finding the area using formula.

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33. find the perimeter of your class if side lenght is 500m.

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34. Find the area of : A door in the house.Suppose length is 10m and breadth is 8m

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35. Find the area of : A black board in your class room.

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36. Find the area of the rectangles with the given sides - 50cm and 20cm

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37. Find the area of the rectangles with the given sides - 65cm and 45cm

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38. Find the area of the rectangles with the given sides - 25cm and 16cm

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39. Find the area of the rectangles with the given sides - 7km and 19km

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40. Find thee area of squares with the given sides - 26m

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41. Find thee area of squares with the given sides - 17km

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42. Find thee area of squares with the given sides - 52cm

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43. Find thee area of squares with the given sides - 8 cm

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44. The area of the rectangular frame is 1,125 sq.cm. If its width is 25cm, what is its lenghth?

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45. The length of a rectangular field is 60m and the breadth is half of its length. Find the area of the field.

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46. A square sheet of paper has a perimeter of 40cm. what is the length of its sides?Also find the area of the square sheet?

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47. The area of the rectangular plot is 2400 square meters and the sides are in the ratio 3:2. what is the perimeter?

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48. The length and breath of a room are 6m and 4m respectively. how many square meters of carpet is required to completely cover the floor of the room? if the carpet cost ₹240 a squate meter, what will be the total cost of completely covering the floor?

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49. Two fields have the same perimeter . one is a square of side 72m and another is a rectangle of length 80m. which plot has the greater area and by how much?

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50. The area of a square is 49 sq.cm. A rectangle has the same perimeter as the square. If the length of the rectangle is 9.3 cm. what is its breadth? Find which has a greater area?

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51. Rahul owns rectangular field of length 400m and breadth 200m. His friend ramu owns a square field of length 300m. Find the cost of fencing the two fields at ₹ 150 per meter. if one tree can be planted in an area of 10 sq.cm who can plant more trees in his field? how many more trees can he planted more?

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52. The length of a rectangular floor is 20 m, more than its breadth. If the perimeter of the floor is 280m, what is its length?

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53. A rectangular plot of land is 240 m by 200 m. the cost of fencing per meter is ₹30. What is the cost of fencing the entire field?

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54. The side of square field is 120 meters. The cost of preparing a grass lawn is ₹35 per square meter. How much will it cost the entire field is converted into a lawn?

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55. What will happen to the area of rectangle? if Its length and breadth is doubled?Its length is doubled and breadth is tripled?

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56. What will happen to the area of a square if its side is doubled

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57. What will happen to the area of a square if its side is halved

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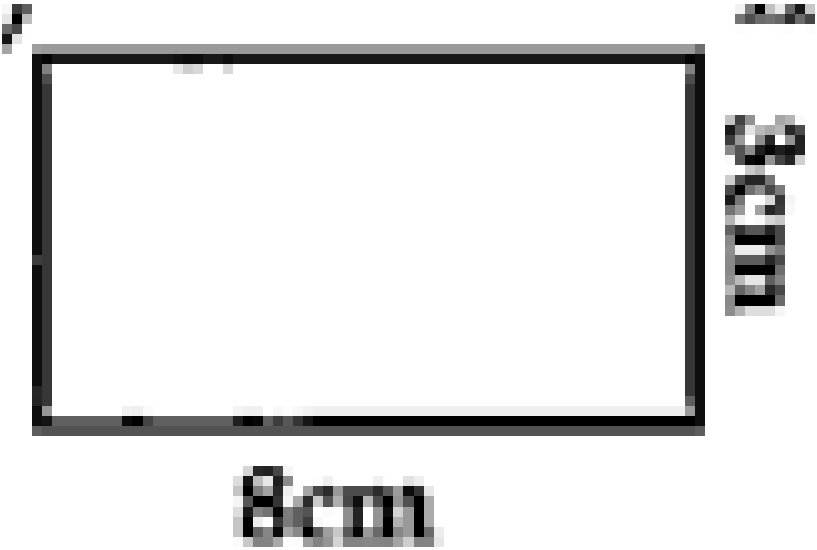
58. Find the perimeter:



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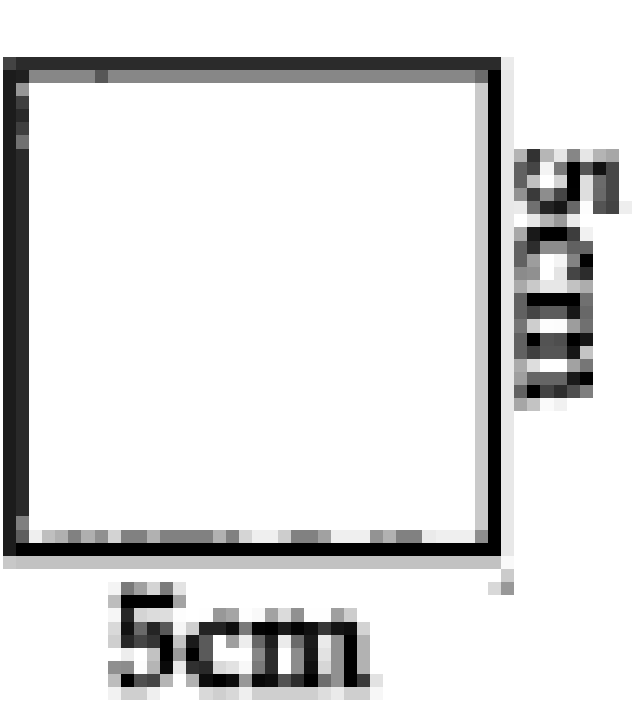
59. Find the perimeter:



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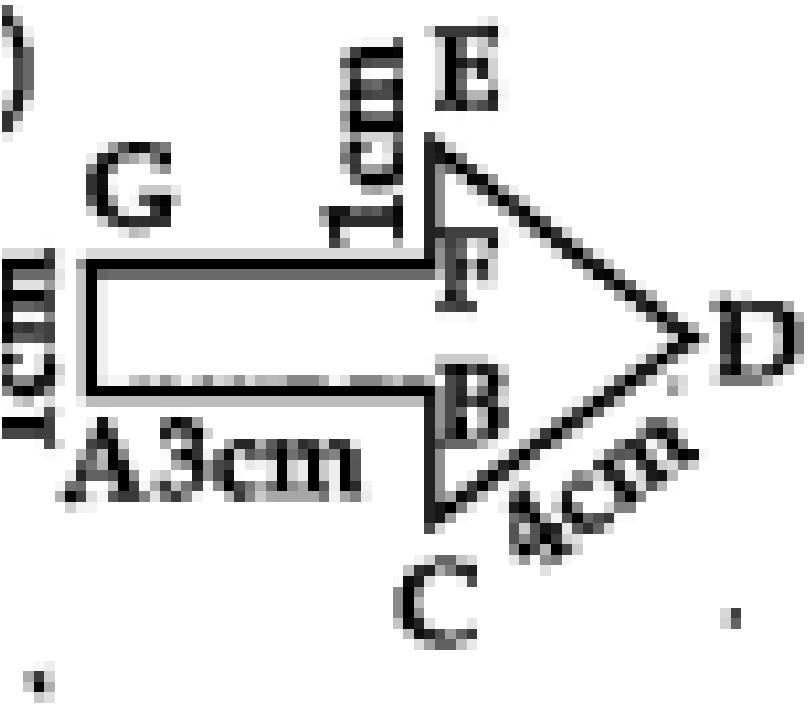
60. Find the perimeter:



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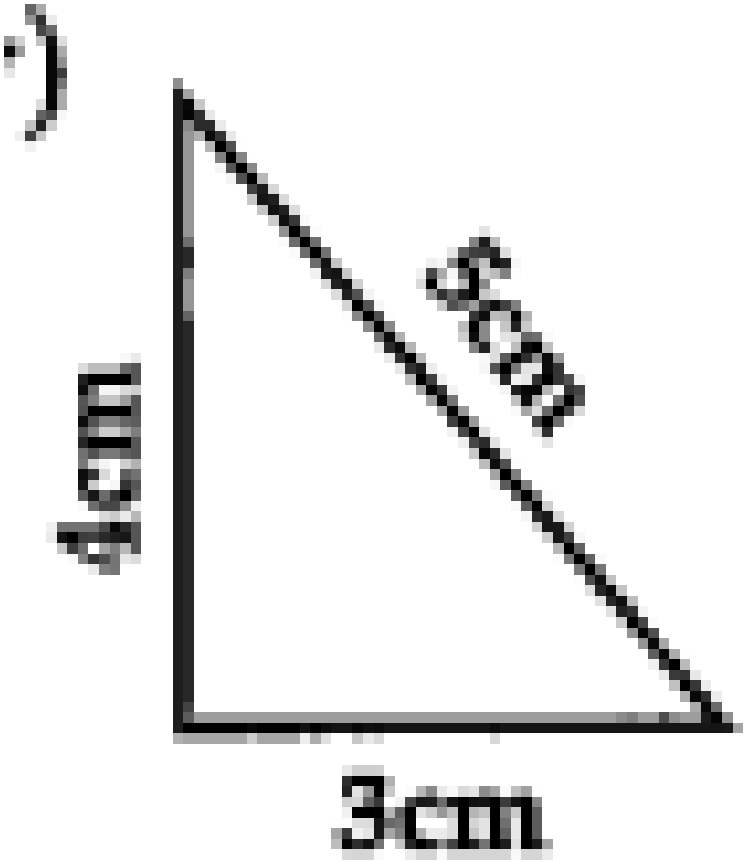
61. Find the perimeter:



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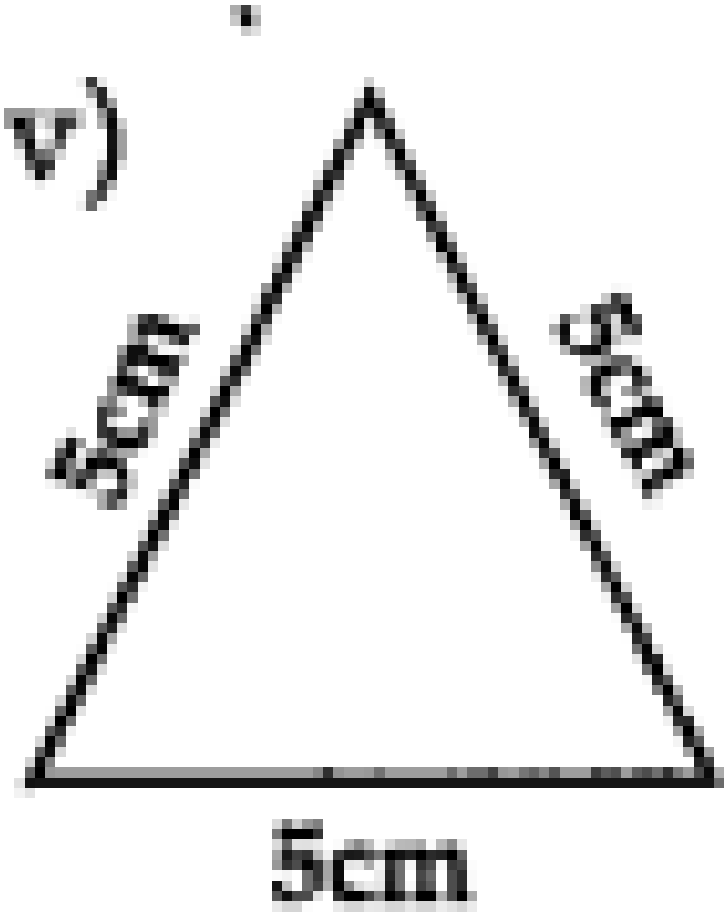
62. Find the perimeter:



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63. Fill in the blanks - 1 Hectare = ... sq.m

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64. Fill in the blanks - The perimeter of a square is 160m then its side .....

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65. Fill in the blanks - Area of rectangle is $240cm^2$. Its length is 20 cm. Find its bredth.

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66. Fill in the blanks - If the sides of a square increased by 4 times then its area of increased by .....

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67. Fill in the blanks - If the length of a rectangular is increased by 3 times, breadth 2 times, its area increases by .....

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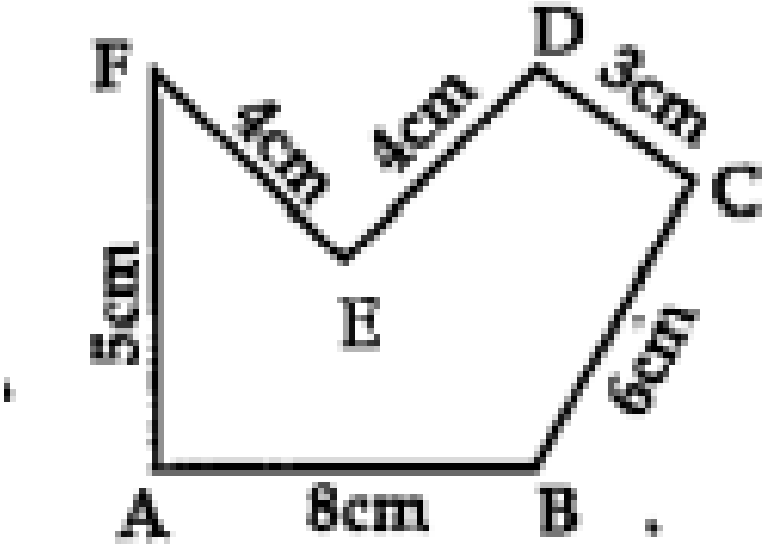
68. Find the perimeter of the given shape



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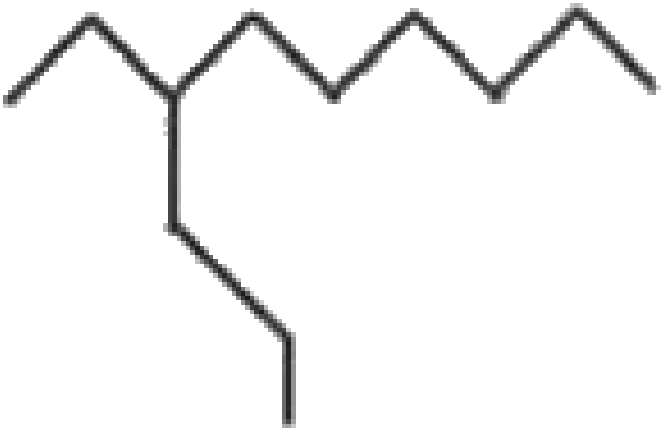
69. The IUPAC name of



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70. The perimeter of a park is 96m.its length is 32m.Find its breadth

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71. The perimeter of a square is 160m.Find its area.

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72. The length and breadth of rectangle are $5:3$ ratio and its area is 375 sq.cms. find the perimeter

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73. Find the cost of paintaing a square plot of perimeter 100m at the ratio of ₹30 per meter.

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74. How many different rectangles with integral measurements can be drawn with perimeter as 24cm.

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75. A piece of wire is 36cm long. What will be the length of each of side, if wire is Used to form i) an equilateral (ij) a square iii) A regular Hexagon.

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76. The side of a square is 15cm. Find its pe-rimeter and area?

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77. The length and breadth of a rectangular field is 60m and 45m respectively: Find its perimeter and the area?

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78. If the area of a rectangle is 250 cm^2 and length is 25cm then what is its breadth ?

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79. Around a rectangular park of sides 80m and 60m a wire has to be arranged. The cost of the wire is 25 per meter. What isthe total cost of the wire ?

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80. The perimeters of a rectangle and a square are same. If the length and breadth of the rectangle are 40m and 32m. respectively, Find which has greater area and by how much?

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81. If the length and breadth of a rectangle is increased by 3 units each. What will happen to its perimeter?

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82. The perimeter of a regular hexagon if its side is s cm.

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83. The perimeter of a rectangle 'p', its length is 'l', write the equation.to find its breadth ‘b'

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84. The perimeter of an Isosceles triangle is P which-has equal sides of 'a', the third side is b. Find the equation to find "b'.

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Example

1. Ritu went to a park 130m long and 90m wide. She took one complete round of it. What distance did she cover?

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2. Find the perimeter of a rectangle which length is 26cm and breadth is 20cm.

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3. Find the perimeter of a rectangular field which is 36 m long and 24 m wide.

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4. Find the breadth of a rectangle whose perimeter is 76 cm and length is 26 cm

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5. The length and breadth of a rectangular field are 22.5 m and 14.5 m respectively. Find the cost of fencing its four sides at the rate of Rs. 6 perimeter.

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6. How many different rectangles with integral measurements can be drawn with perimeter as 32 cm

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

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8. Find the side of the equilateral triangle whose perimeter is 54 cm

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9. A piece of wire is 24 cm. long. What will be the length of each side, if the wire is used to form.

an equilateral triangle ?

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10. A piece of wire is 24 cm. long. What will be the length of each side, if the wire is used to form.

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11. A piece of wire is 24 cm. long. What will be the length of each side, if the wire is used to form.

a regular hexagon?

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12. How many tiles with dimensions 12 cm and 5 cm will be needed to fit a region whose length and breadth are 144 cm and 100 cm respectively.

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13. The perimeters of a rectangle and a square are same. If the length and breadth of the rectangle are 35 cm and 25 cm respectively, find which figure has greater area and by how much.

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14. Find the area of a rectangle whose length is 4 m. and breadth 68 cm Calculate the area in sq cm

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15. The area of a rectangular garden which is 40 meter long is 1120 sq m Find the width of the garden?

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16. Five square flower beds each of side 1m are dug on a piece of land 5m long and 4 m wide. What is the area of the remaining part of the land?

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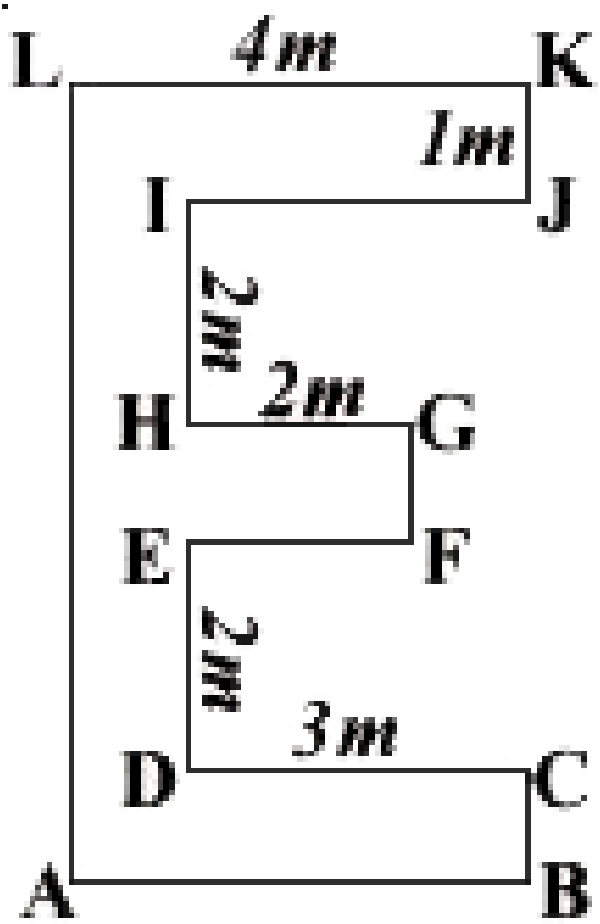
18. Find the perimeter of given shape



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Try These

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A table with sides equal to 35 cm, 16 cm, 35 cm and 16 cm respectively.

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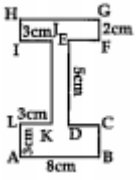

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3. Find the perimeter of the following:

Around a rectangular park of sides 100 meter and 90 meters a wire has to be put. The cost of the wire is Rs 10 per meter. What is the total cost of the wire?

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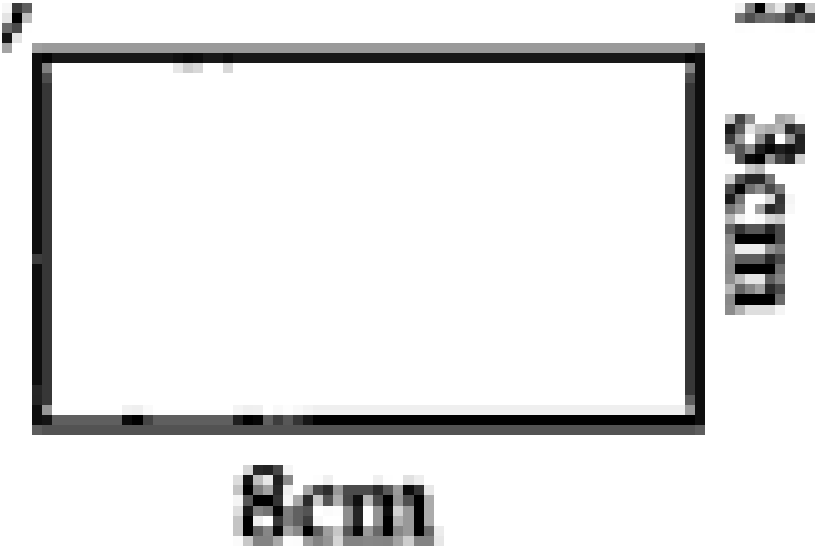
4. Find the perimeter:



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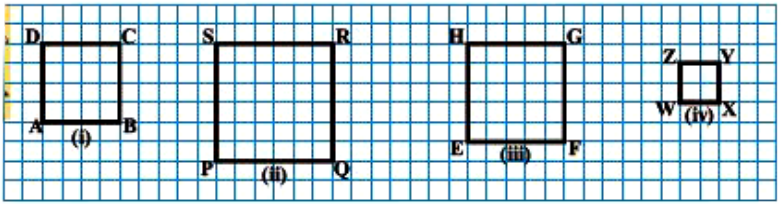
5. Find the perimeter of the following squares. Figures are drawn on 1 cm grids.



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6. Simplify the expression and find the value if x is equal to 2: $3(x+2)+5x-7$

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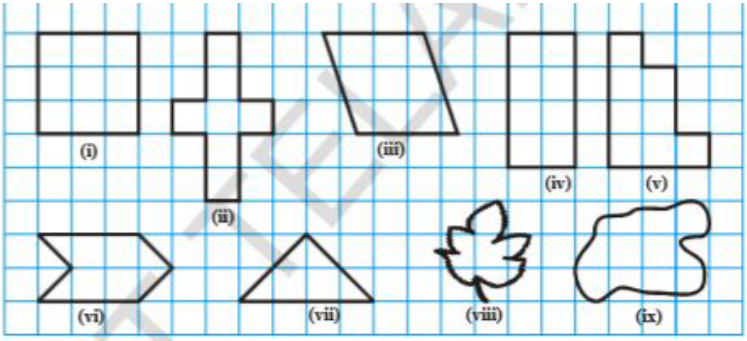
7. Find the areas of the following figures by counting squares.



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Watch Video Solution

8. Draw two different rectangles having the same perimeter. Compare their areas. Are they same? Can you draw two different squares having the same perimeter.

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9. The length of one side of square is given. Find their areas using graph paper.

4 cm

Compare the results with finding the area using the formula.

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10. The length of one side of square is given. Find their areas using graph papers.

6cm

Compare the results with finding the area using formula.

Watch Video Solution

11. The length of one side of square is given. Find their area using graph paper.

2cm

Compare the results with finding the area using the formula

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12. The length of one side of square is given. Find their area using graph paper.

8 cm

Compare the results with finding the area using the formula.

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13. Find the perimeter of the following:

A table with sides equal to 35 cm, 16 cm, 35 cm and 16 cm respectively.

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14. Find the perimeter of the following:

Measure the length of the sides of your text book cover. What is the perimeter?

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15. Find the perimeter of the following:

Around a rectangular park of sides 100 meter and 90 meters a wire has to be put. The cost of the wire is Rs 10 per meter. What is the total cost of the wire?

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16. Find the perimeter of the following rectangles

Length of rectangle	Breadth of rectangle	Perimeter by adding all the sides	Perimeter by the formula 2 × (Length+Breadth)
20 cm	15 cm	= 20 cm + 15 cm + 20 cm + 15 cm = 70 cm	=2×(20 + 15) =2 × (35) =70 cm
0.7 m	0.3 m		
22 cm	18 cm		
12.5 cm	7.5 cm		

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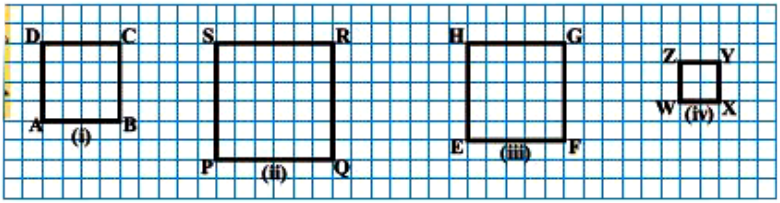

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18. Express each of the following decimals in the $\frac{p}{q}$ form

67.115

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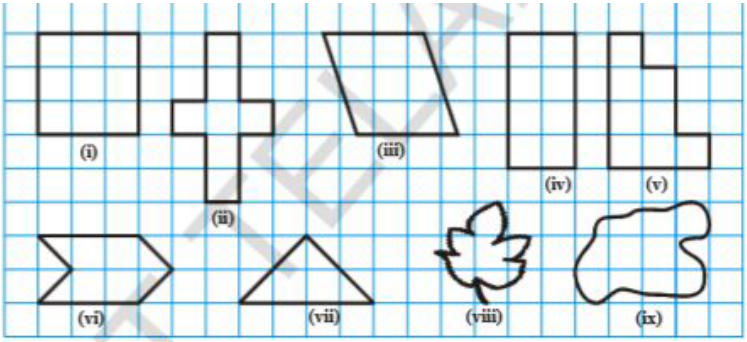
19. Find the areas of the following figures by counting squares.



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Compare the results with finding the area using formula.

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23. The length of one side of few squares are given. Find their areas using graph paper - 2cm

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Watch Video Solution

24. The length of one side of few squares are given. Find their areas using graph paper - 8cm

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Do This

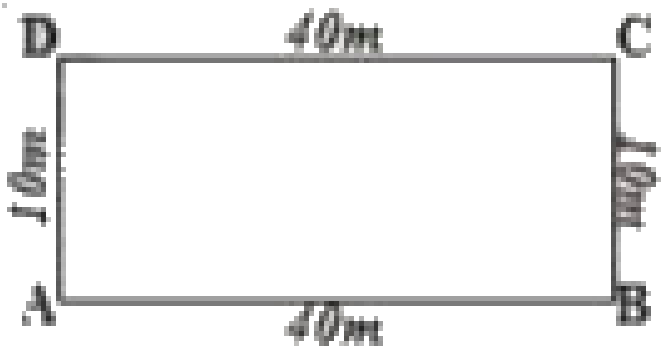
1. What would be the perimeter of these shape?

Fill in the blanks given and in each case start from the point A.

Perimeter = AB + ... + ... +.....

$= \ldots\ldots + \ldots\ldots + \ldots\ldots + \ldots\ldots$

$= \ldots\ldots m$



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2. What would be the perimeter of these shape?

Fill in the blanks given and in each case start from the point A.

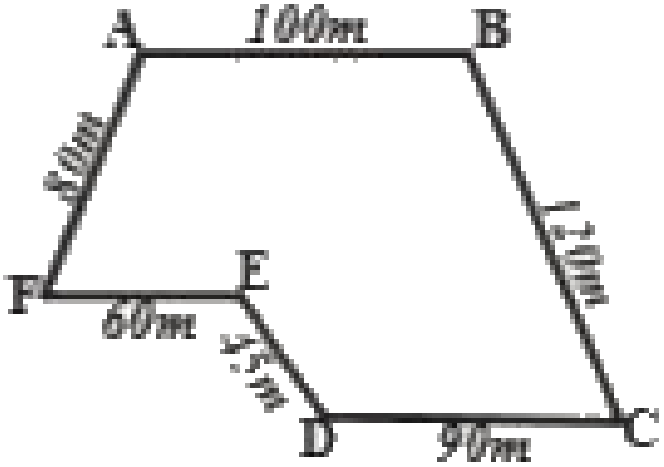
= AB + ... + ...

$+ \ldots\ldots + \ldots\ldots + \ldots\ldots$

$= \ldots\ldots + \ldots\ldots + \ldots\ldots$

+ ..... + ... + ...

$= \ldots\ldots m$



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6. Find the perimeter of a regular pentagon of side 8 cm.

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7. Trace shapes of leaves, flower petals and other such objects on the graph paper and find their area approximately.

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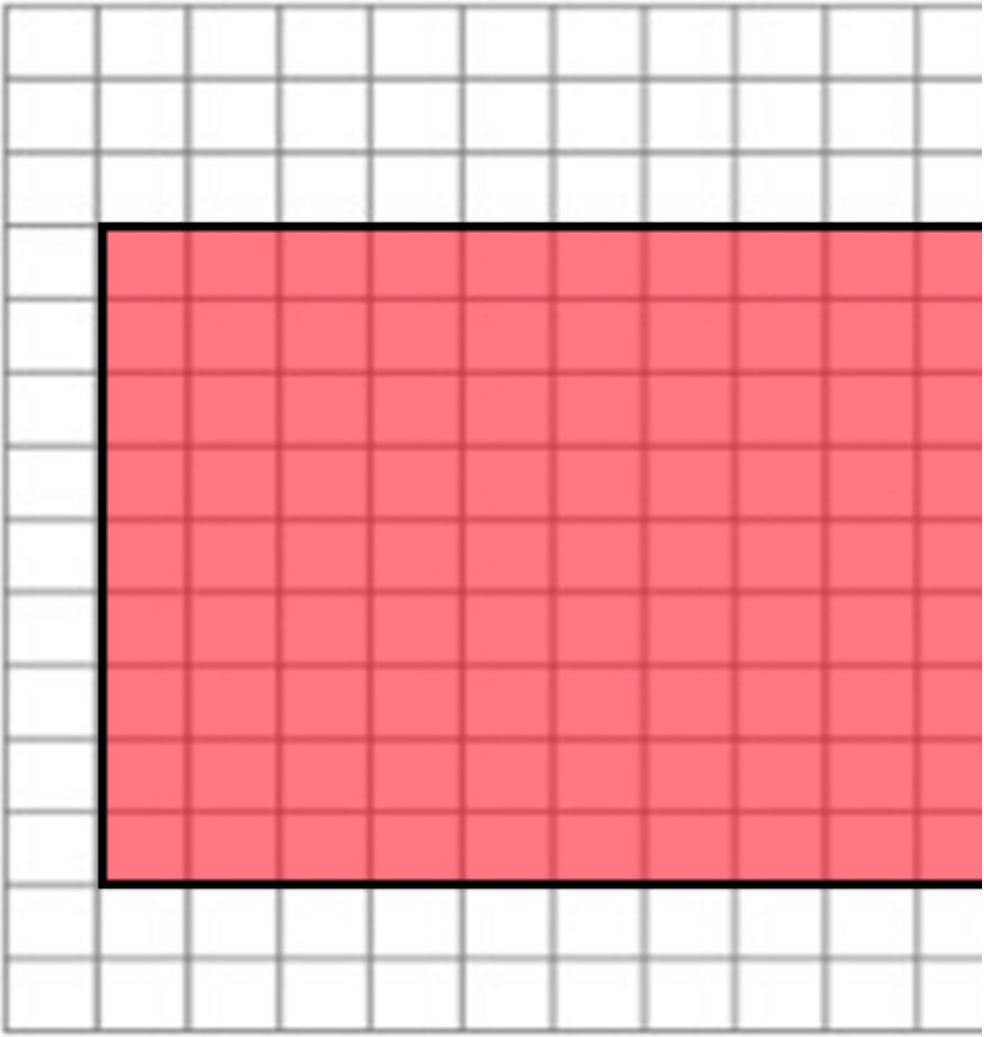
8. Draw a rectangle diagram on a graph sheet. Count the squares and use them to estimate the area of the region.



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9. Find the area of:

The rectangular floor of length 40m and breadth 25m

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10. Find the area of : A door in the house.Suppose length is 10m and breadth is 8m

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11. Find the area of : A black board in your class room.

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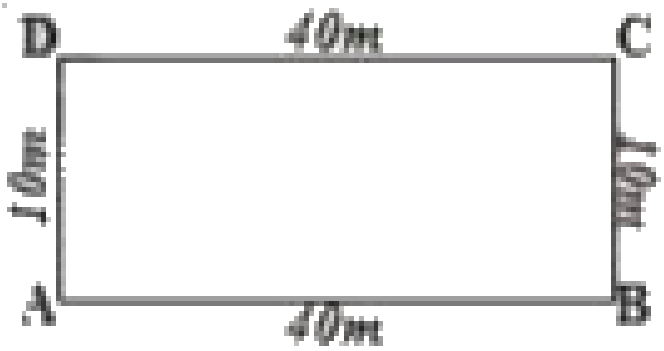
12. What would be the perimeter of these shape?

Fill in the blanks given and in each case start from the point A.

Perimeter = AB + ... + ... +.....

= ..... + ... + ... + ...

$= \ldots\ldots\ldots m$



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13. What would be the perimeter of these shape?

Fill in the blanks given and in each case start from the point A.

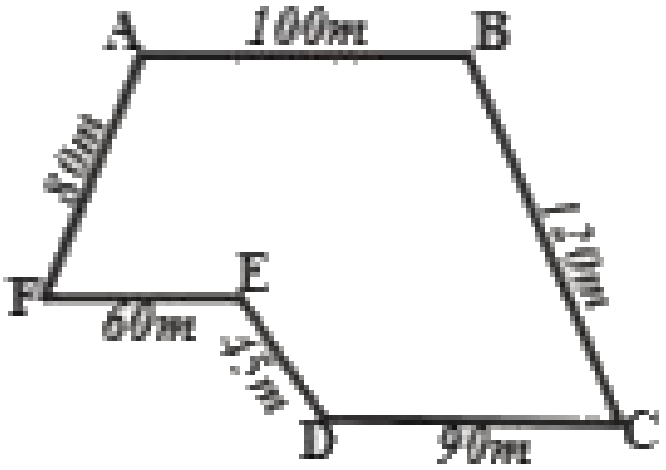
= AB + ... + ...

$+\ldots\ldots\ldots + \ldots\ldots\ldots + \ldots\ldots\ldots$

$= \ldots\ldots\ldots + \ldots\ldots\ldots + \ldots\ldots\ldots$

+ ..... + ... + ...

$= \ldots\ldots\ldots m$



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14. A square picture frame has sides of 0.75 meters. If the cost of a coloured paper is Rs 20 per meter, what is the cost of putting coloured paper around the frame?

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15. There is a string of length 44 cm. How many different rectangles with positive integers as length and breadth can be made with this string?

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16. If I have a stringh 41cm long I can make a rectangle using the string completely? Give reasons.

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17. Find the perimeter of a regular pentagon of side 8 cm.

Watch Video Solution

18. Trace shapes of leaves, flower petals and other such objects on the graph paper and find their area approximately.

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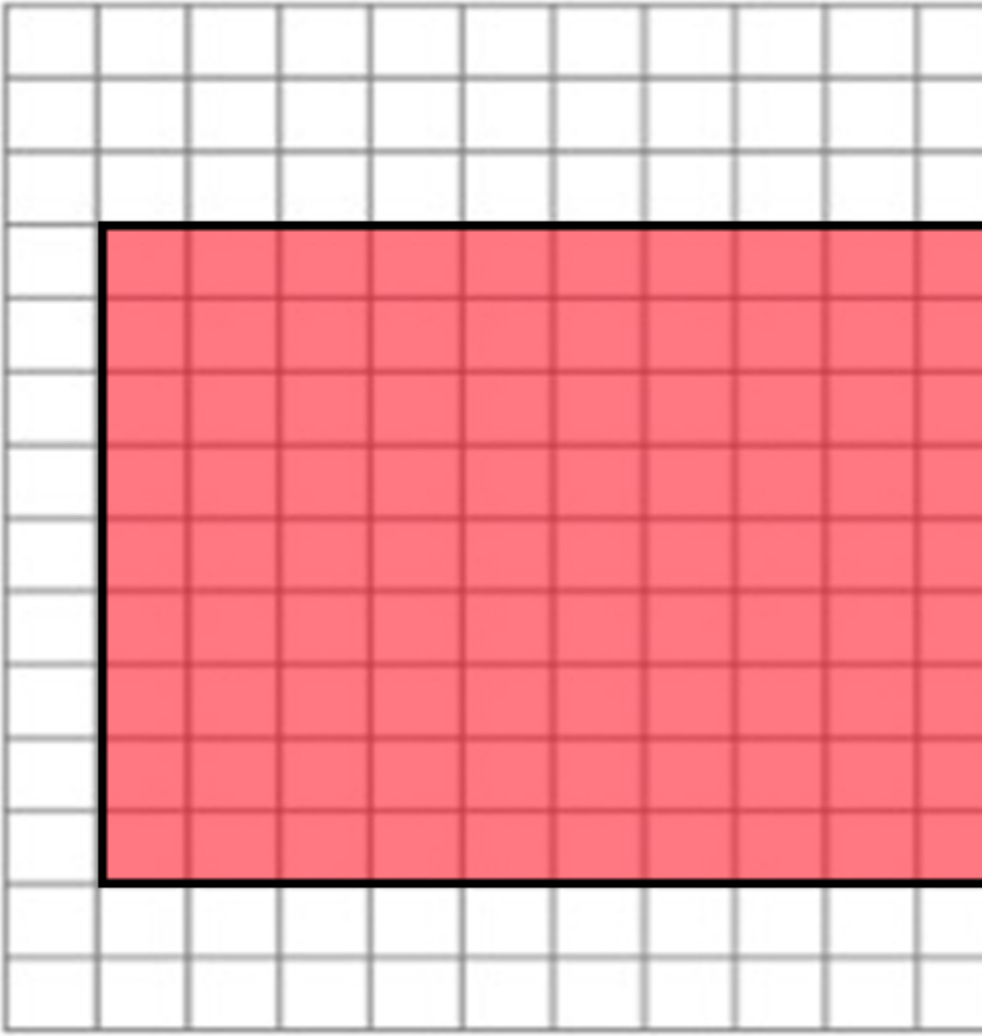
19. Draw a rectangle diagram on a graph sheet. Count the squares and use them to estimate the area of the region.



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20. Find the area of:

The floor of your classroom. Length=11m, width=8m

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21. Find the area of : A door in the house.Suppose length is 10m and breadth is 8m

Watch Video Solution

22. Find the area of : A black board in your class room.

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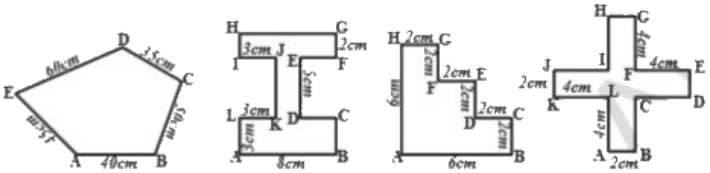
Exercise 10 1

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



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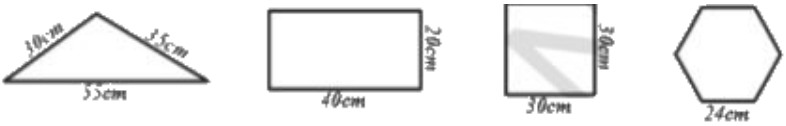
2. Find the perimeter of each of the following figures.



What would be cost of putting a wire around each of these shapes given that 1cm wire costs Rs. 15.

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3. How many different rectangles can you make with a 24 cm long string with integral sides and what are the sides of those rectangles in cm?

Watch Video Solution

4. A flower bed is in the shape of a square with a side 3.5 m Each side is to be fenced with 4 rows of ropes. Find the cost of rope required at Rs. 15 per meter.

Watch Video Solution

5. A piece of wire is 60 cm long. What will be the length of each side if the string is used to form :

an equilateral triangle

Watch Video Solution

6. A piece of wire is 60 cm long. What will be the length of each side if the string is used to form :

a square .

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7. A piece of wire is 60 cm long. What will be the length of each side if the string is used to form :

a regular hexagon

Watch Video Solution

8. A piece of wire is 60 cm long. What will be the length of each side if the string is used to form :

a regular pentagon.

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9. Bunty and Bubly go for jogging every morning. Bunty goes around a square park of side 80m and Bubly goes around a rectangular park with length 90m and breadth 60m. If they both take 3 rounds, who covers greater distance and by how much?

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10. The length of a rectangle is twice of its breadth. If its perimeter is 48 cm, find the dimensions of the rectangle?

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

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12. Find the perimeter of each of the following shapes: A triangle of sides 3cm, 4cm, and 5cm.

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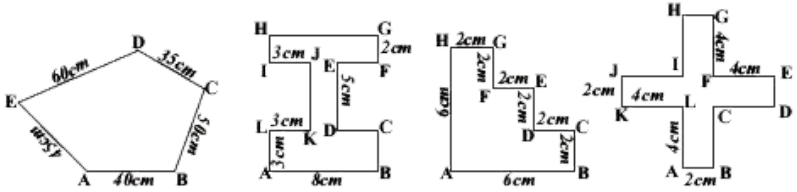
13. Find the perimeter of each of the following shapes: An equilateral triangle of side 9 cm.

Watch Video Solution

14. Find the perimeter of each of the following shapes: An isolation Triangle with equal sides 8cm each and third side of 6 cm.

Watch Video Solution

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



Watch Video Solution

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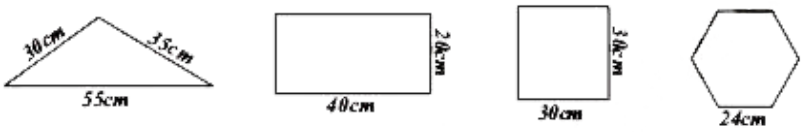

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21. A piece of wire is 60 cm long. What will be the length of each side if the string is used to form :

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Watch Video Solution

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28. Find the perimeter of each of the following shapes: An isolation Triangle with equal sides 8cm each and third side of 6 cm.

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Exercise 10 2

1. Find the area of the rectangles with the given sides:

50 cm and 20 cm

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2. Find the area of the rectangles with the given sides:

65 m and 45 m

Watch Video Solution

3. Find the area of the rectangles with the given sides:

25 cm and 16 cm

Watch Video Solution

4. Find the area of the rectangles with the given sides - 7km and 19km

Watch Video Solution

5. Find thee area of squares with the given sides - 26m

Watch Video Solution

6. Find thee area of squares with the given sides - 17km

Watch Video Solution

7. Find thee area of squares with the given sides - 52cm

Watch Video Solution

8. Find thee area of squares with the given sides - 8 cm

Watch Video Solution

9. The area of the rectangular frame is 1,125 sq.cm. If its width is 25cm, what is its lenghth?

Watch Video Solution

10. The length of a rectangular field is 60m and the breadth is half of its length. Find the area of the field.

Watch Video Solution

11. A square sheet of paper has a perimeter of 40cm. what is the length of its sides?Also find the area of the square sheet?

Watch Video Solution

12. The area of the rectangular plot is 2400 square meters and the sides are in the ratio 3:2. what is the perimeter?

Watch Video Solution

13. The length and breath of a room are 6m and 4m respectively. how many square meters of carpet is required to completely cover the floor of the room? if the carpet cost ₹240 a squate meter, what will be the total cost of completely covering the floor?

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14. Two fields have the same perimeter . one is a square of side 72m and another is a rectangle of length 80m. which plot has the greater area and by how much?

Watch Video Solution

15. The area of a square is 49 sq.cm. A rectangle has the same perimeter as the square. If the length of the rectangle is 9.3 cm. what is its breadth? Find which has a greater area?

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16. Rahul owns rectangular field of length 400m and breadth 200m. His friend ramu owns a square field of length 300m. Find the cost of fencing the two fields at ₹ 150 per meter. if one tree can be planted in an area of 10 sq.cm who can plant more trees in his field? how many more trees can he planted more?

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17. The length of a rectangular floor is 20 m, more than its breadth. If the perimeter of the floor is 280m, what is its length?

Watch Video Solution

18. A rectangular plot of land is 240 m by 200 m. the cost of fencing per meter is ₹30. What is the cost of fencing the entire field?

Watch Video Solution

19. The side of a square field is 95 meters. The cost of preparing a grass lawn is Rs.30 per square meter. How much will it cost if the entire field is converted into lawn ?

Watch Video Solution

20. What will happen to the area of rectangle, if

Its length and breadth are doubled?

Watch Video Solution

21. What will happen to the area of rectangle, if

Its length is doubled and breadth is tripled?

Watch Video Solution

22. What will happen to the area of a square if its side is doubled

Watch Video Solution

23. What will happen to the area of a square if its side is halved

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Watch Video Solution

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Watch Video Solution