



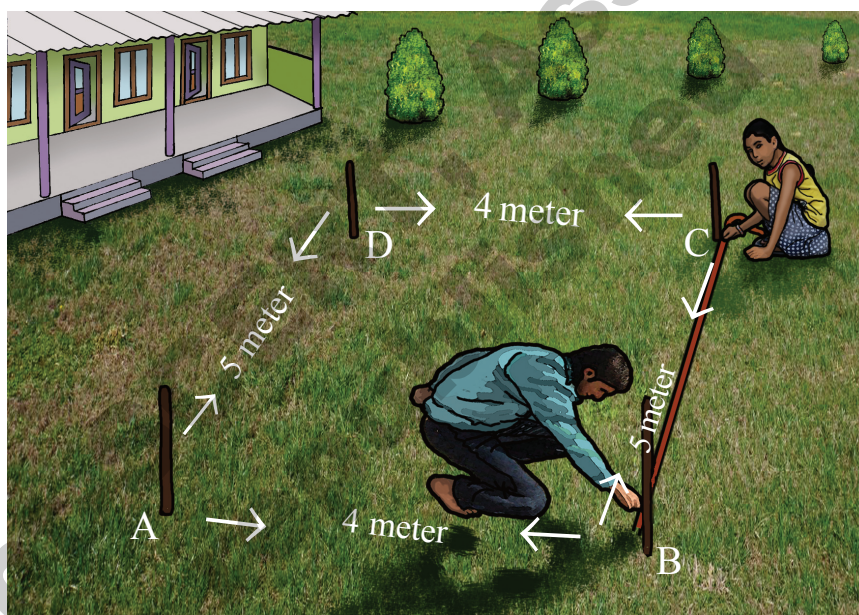
Lesson-13

Perimeter and Area

Mallika's uncle make some arrangements for a garden in front of their house. He decided about the flower saplings which will be planted. He wanted to measure the boundary of the garden to give a bamboo fence.

Let us see how Mallika's uncle took the measurements of the boundary of the plot.

Mallika's uncle posted four posts in four corners of the garden. He measured 4 metres from 'A' to 'B' and 'C' to 'D' and 5 metres from 'D' to 'A' and 'B' to 'C'.



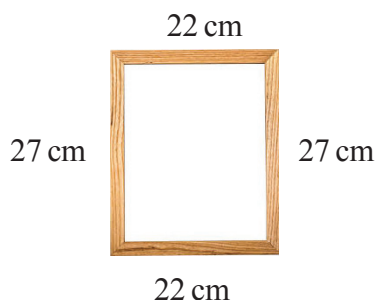
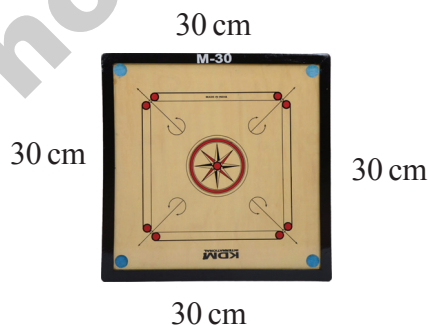
The measurement of boundary of the garden is

$$4 \text{ meter} + 5 \text{ meter} + 4 \text{ meter} + 5 \text{ meter} = 18 \text{ meter}$$

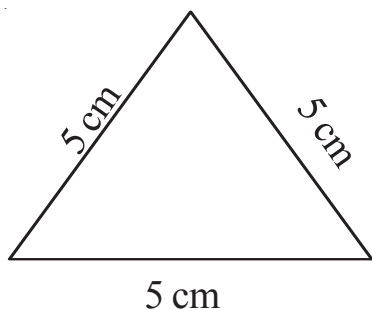
The length of the 4 sides of a plane surface is the Perimeter

So the perimeter of the garden is 18 metre.

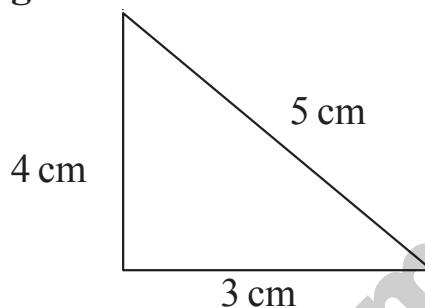
Let us find the perimeter of the pictures below



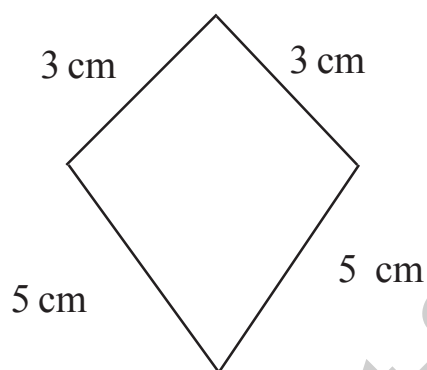
Find out the perimeter of the following figure



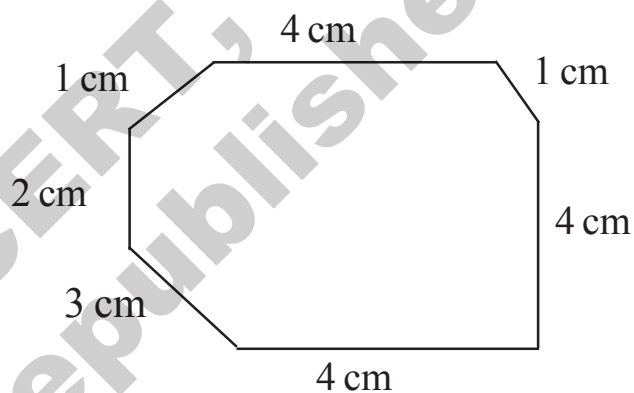
Perimeter = $5\text{ cm} + 5\text{ cm} + 5\text{ cm} = 15\text{ cm}$



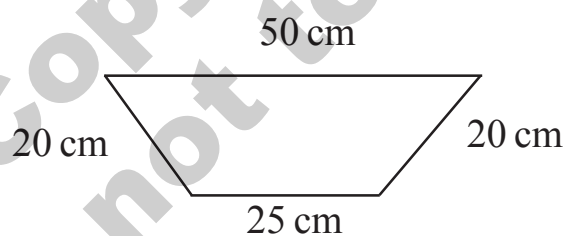
Perimeter =



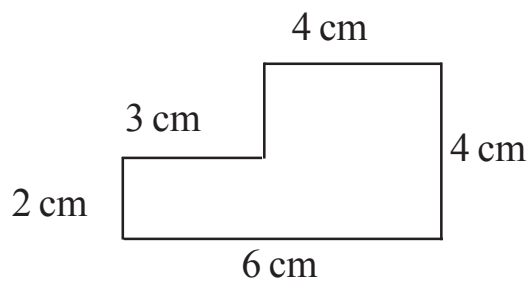
Perimeter =



Perimeter =



Perimeter =



Perimeter =

Nahid's mother bought a piece of cloth of 1 meter 50 cm length and 70 cm breadth for a table. Find the length of the lace to be stitched on all the sides of the table cloth.



..... cm

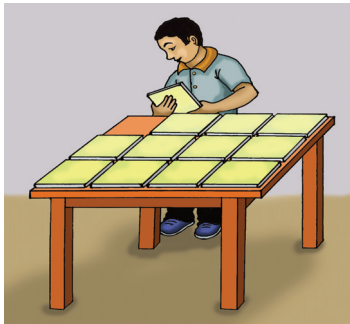
Let us measure the perimeter of a leaf



- Take a string. Measure the leaf from 'A' to 'B' and from B to A as shown in the picture with the help of the string.
- Knot the thread after completing the measurement.
- Now, take a scale and measure the length of the string upto the knot. This length is the perimeter of the leaf.
- In the same way find out the perimeter of a dish or a bangle.

Let us measure

Instruction to the teacher : The teacher will ask the students to take their Mathematics Books and place them on the top of a table without leaving any gaps. He/she will then ask the students to find out how many books are covering the top of the table. After this the teacher will ask the students to collect some match boxes and place them on the top of their Mathematics book and find out how many match boxes cover the top of the book.



----- books covers the top of the table

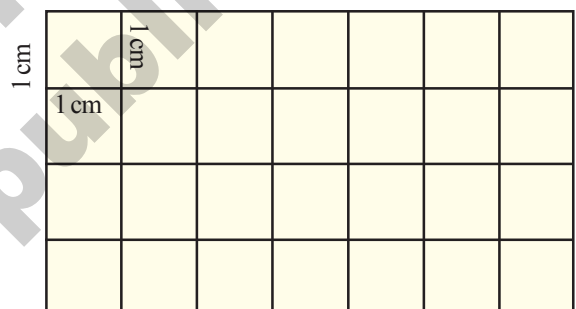
----- match boxes covers the book

Look at the net and answer the following questions

How many squares are there in the net ? ...

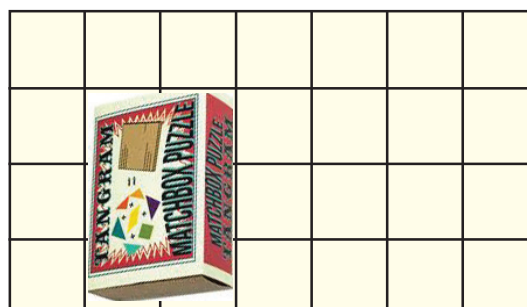
The length of the net is cm

and breadth of the net is cm

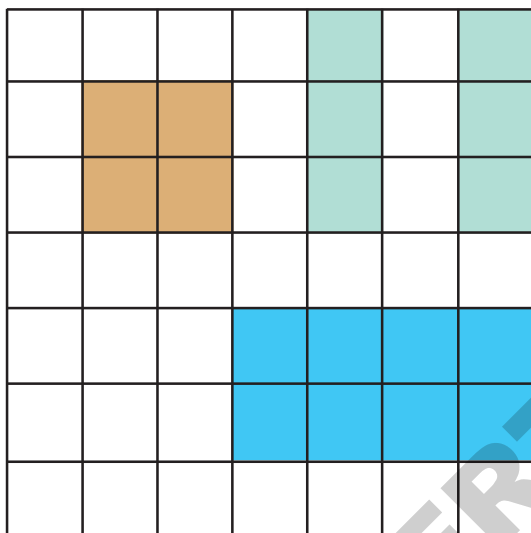


Now place a match box on the net. How many squares are covered by the matchboxes squares.

Did you all get the same number of squares ?



How many coloured squares are there in the following net? Which colour covers maximum number of squares? Each side of the square is 1 cm



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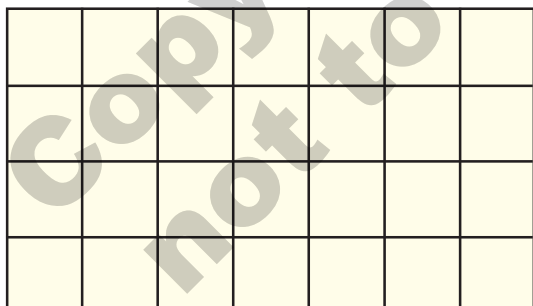


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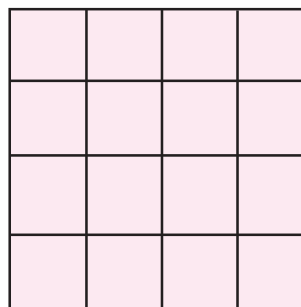


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How many squares are there in the rectangle ?

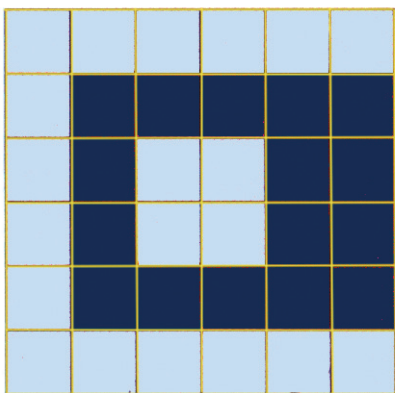


How many small squares are there in the square ?

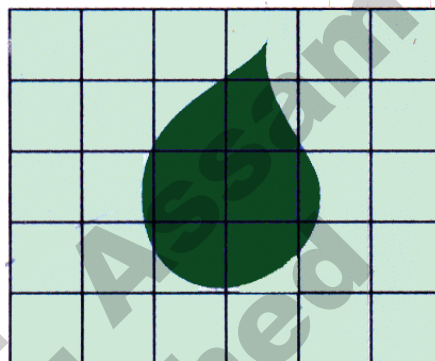


(The side of each square is 1cm) Find the number of squares covered by the shaded part in each of the nets below.

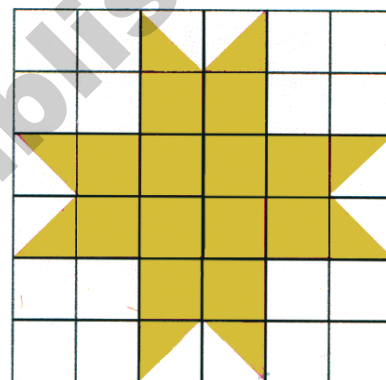
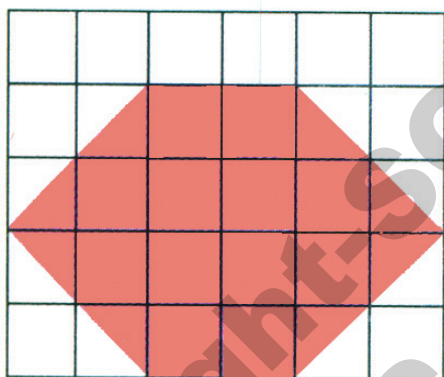
Instruction to the teacher : Teacher will help the students to count the squares as follows - if more than half of a square is shaded, count it as 1. If half is shaded count it up with another half. If less than half is shaded, ignore. The first two are done for you.



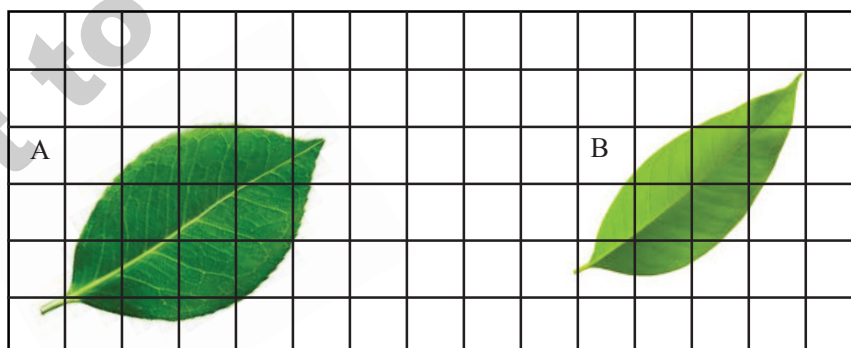
16 squares



6 squares



Count and write the number of squares covered by the leaves below



A = squares

B = squares

● Which leaf is bigger ☐

● Which leaf is smaller ☐

