

Higher Order Thinking Skills

Primary 5

Lesson 5:

Area & Perimeter (II)

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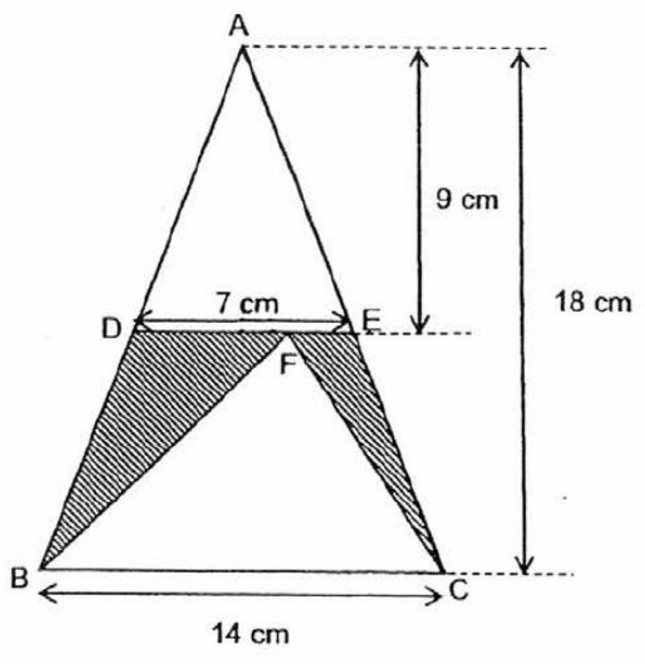
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LESSON 8 Area & Perimeter (II)

GUIDED EXAMPLE 1

Visualisation

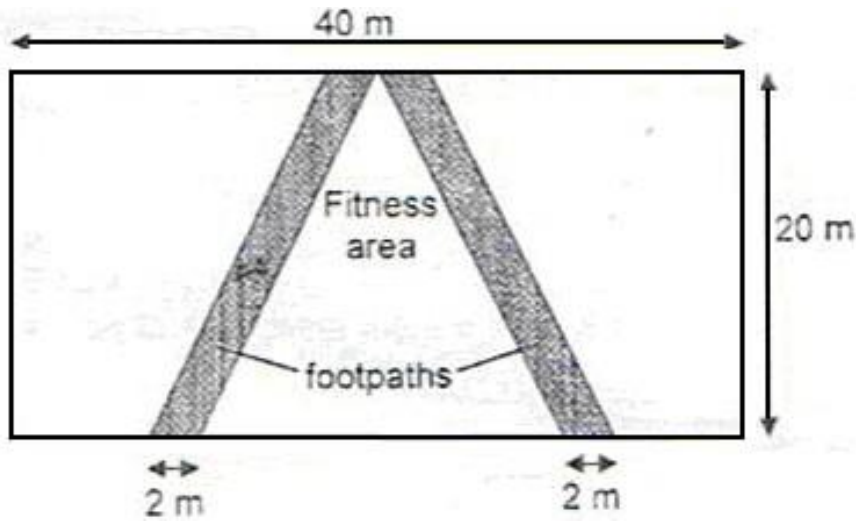
The figure is made up of triangles.
Find the total area of the shaded parts.



GUIDED EXAMPLE 2

Rearrangement of Parts

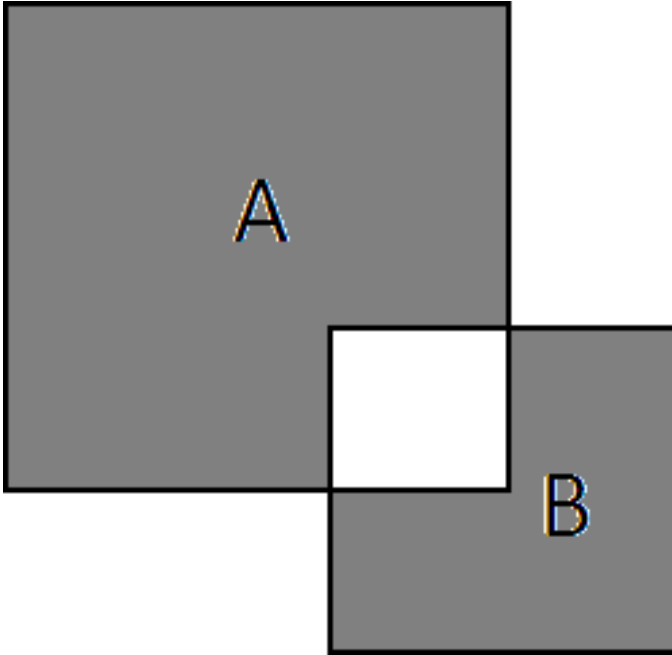
The figure below shows a rectangular field with a fitness area in the shape of an isosceles triangle. Grey footpaths in the shape of parallelograms are paved on two sides of the fitness area. What is the total area of the grey footpaths?



GUIDED EXAMPLE 3

Difference in Area

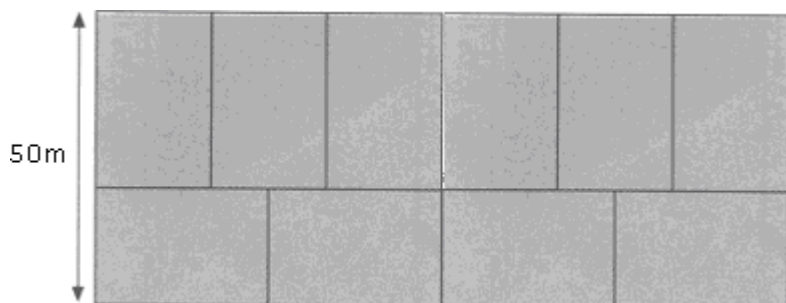
The figure below shows both squares A and B, of sides 11 cm and 10 cm respectively. Both squares overlap each other partially. Find the difference between the two shaded areas.



GUIDED EXAMPLE 4

Use of Ratio

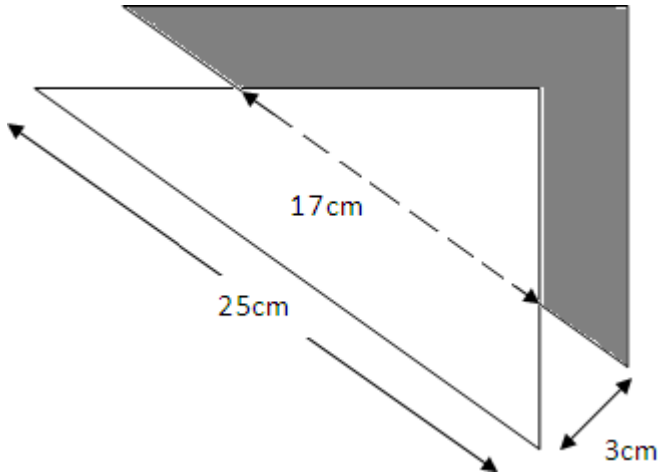
A farmer wanted to divide his garden into 10 similar rectangular plots as shown below. Given that the breadth of the garden is 50 m, find its area.



GUIDED EXAMPLE 5

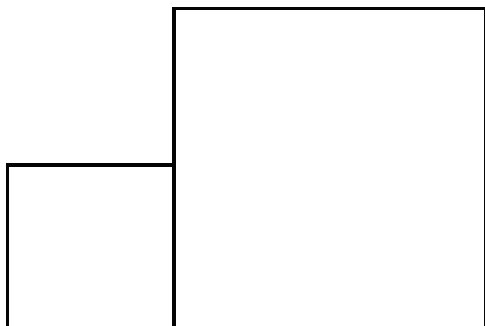
Systematic Listing

Two identical right-angled triangles overlap each other as shown below.
Find the area of the shaded part.



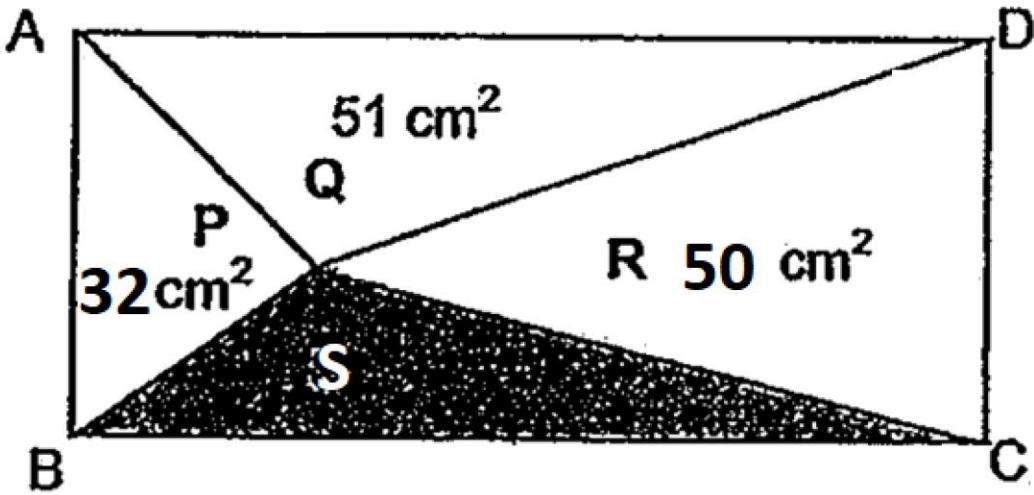
GUIDED EXAMPLE 6

The figure is formed by 2 squares. The side of each square is a whole number.
If the total area of the figure is 117 cm^2 , what is the perimeter of the figure?



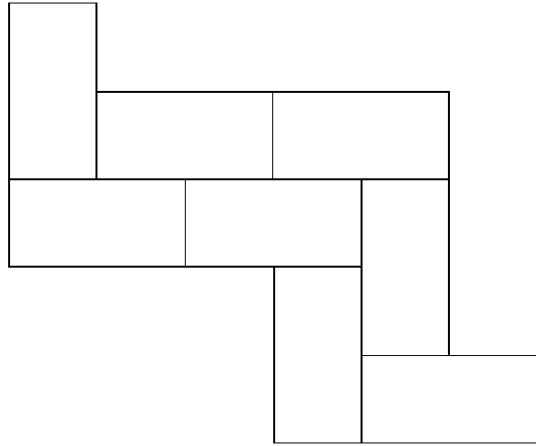
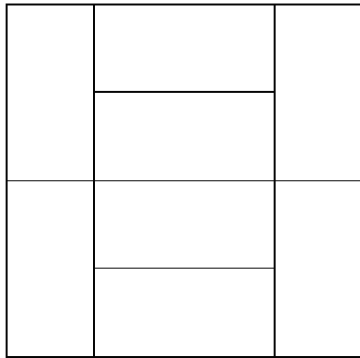
GUIDED EXAMPLE 7

ABCD is a rectangle.
It is divided into 4 different triangles, P, Q, R and S
which meet at a point as shown.
Find the area of triangle S.

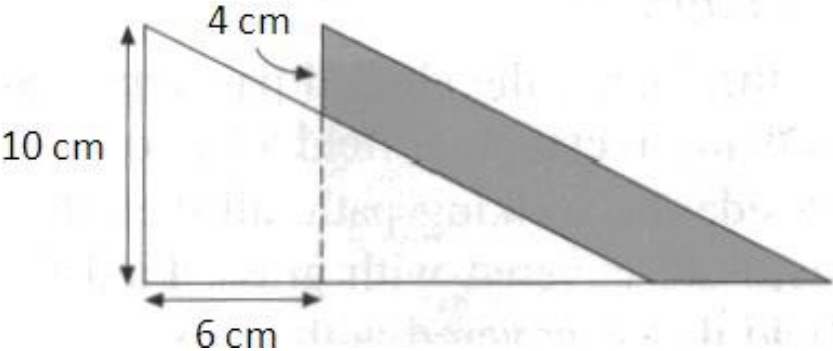


BUILD YOUR UNDERSTANDING

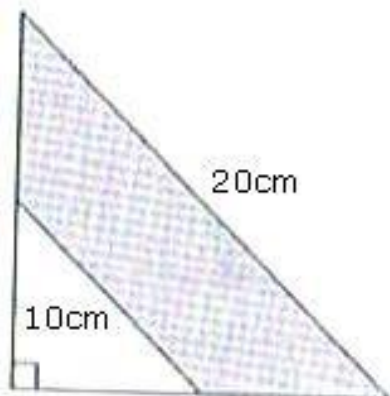
1. Each of the figures below is formed by arranging 8 similar rectangular cards. Both figures have the same area of 784 cm^2 . Find the perimeter of each figure.



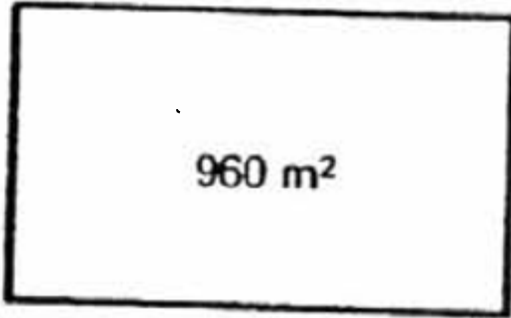
- 2. The figure below shows two similar right-angled triangles overlapping each other. Find the area of the shaded part.



3. The figure below is formed by two isosceles triangles.
The bases of the triangles are 10 cm and 20 cm respectively.
Find the area of the shaded region.

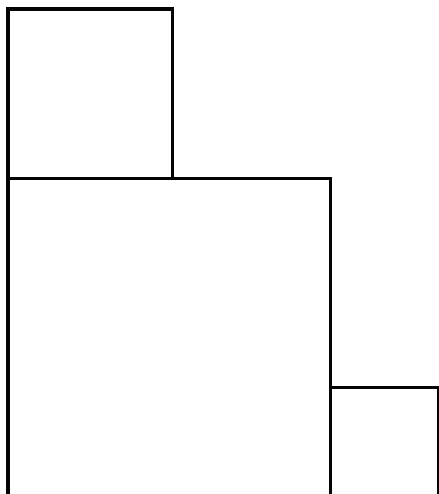


4. A rectangular vegetable plot has an area of 960 m^2 .
Given that its breadth is $\frac{3}{5}$ of its length,
find the perimeter of the vegetable plot.

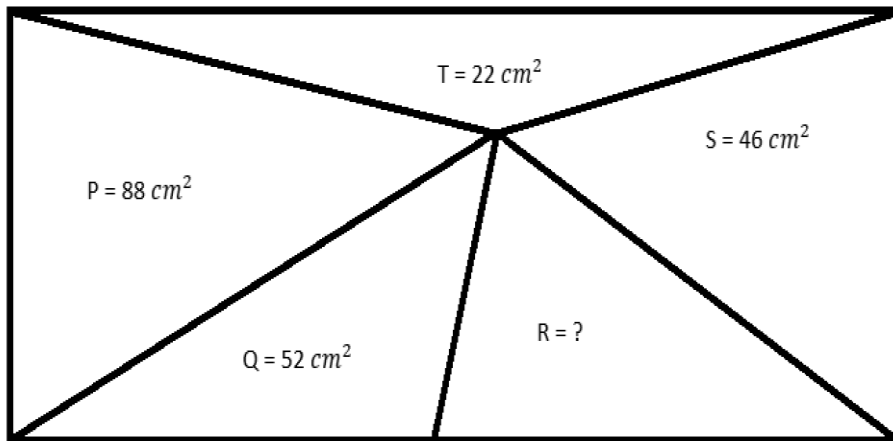


(Red Swastika P5 CA1 Q10)

5. The figure is formed by 3 squares.
The side of each square is a whole number.
If the total area of the figure is 142 cm^2 ,
what is the perimeter of the figure?



6. The figure below shows a rectangle that has been divided into 5 different triangles, P, Q, R, S and T with their respective areas given in the figure. Find the area of R.



7. The figure shows a square ABCD of 10cm side and a triangle CEF. The ratio of length DF to FC is 1:4. Find the difference between the 2 shaded areas.

