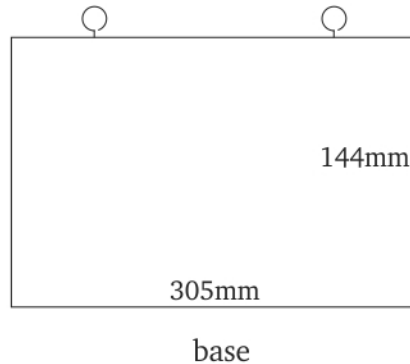
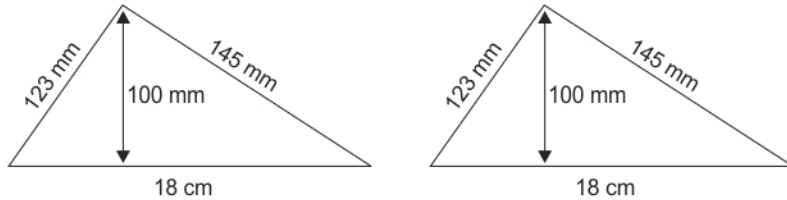


AREA OF A TRIANGLE

To show that area of a Triangle = $\frac{1}{2} \times \text{base} \times \text{height}$

Assembly :

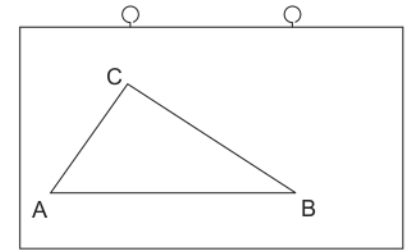
Consists of two similar triangles of the following dimensions made of 12mm eva rubber. A base of 305mm x 144mm made of 12mm eva rubber with hooks and pins are part of the kit.



To do and Observe :

Step 1 :

Take the one triangle and fix it to the base using pins as shown.



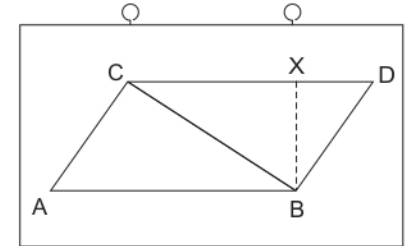
ABC is the triangle

AC is base = b

BX is height = h

Step 2 :

Now take the second triangle and arrange it besides first one invertedly so as to form a quadrilateral ACDB as shown.



With the scale measure and verify that opposite sides of the quadrilateral ACDB are equal. Therefore ACDB is a parallelogram.

Now Area of triangle ABC = $\frac{1}{2}$ (Area parallelogram ACDB)

= $\frac{1}{2}$ (AC x BX)

Result :

Area of a Triangle = $\frac{1}{2} \times \text{base} \times \text{height}$