## Area of Triangles

## Learning Objectives:

- Able to calculate the area of a rectangle
- Able to calculate the area of a triangle
- Able to calculate the area of a compound shape


## Get a rectangular piece of paper and cut it diagonally as shown below.



You will obtain two triangles with each triangle having half the area of the rectangle.

## Area of Triangles



- Area of a triangle $=1 / 2 x$ area of rectangle $=1 / 2 x$ base $x$ height
$=1 / 2 b h$


## Area of a Triangle

- Calculate the area of this triangle.


Area $=1 / 2 \times 4 \times 12$
$=24 \mathrm{~cm}^{2}$

## Area of Triangles

- Find the area of the shaded triangle BCD.


$$
\begin{aligned}
\text { Area of ACD } & =1 / 2 \times 9 \times 6 \\
& =27 \mathrm{~cm}^{2} \\
\text { Area of } \mathrm{ABD} & =1 / 2 \times 5 \times 6 \\
& =15 \mathrm{~cm}^{2}
\end{aligned}
$$

$$
\begin{aligned}
\text { Area of } \mathrm{BCD} & =27-15 \\
& =12 \mathrm{~cm}^{2}
\end{aligned}
$$

## Area of Triangles

- Area $=\underline{\text { base } \times \text { height }}$ 2



## Area of Triangles

- Find the area of the following triangle.


Area $=1 / 2 \times 10 \times 6$
$=30 \mathrm{~cm}^{2}$

## Area of Triangles



## Area of Triangles



