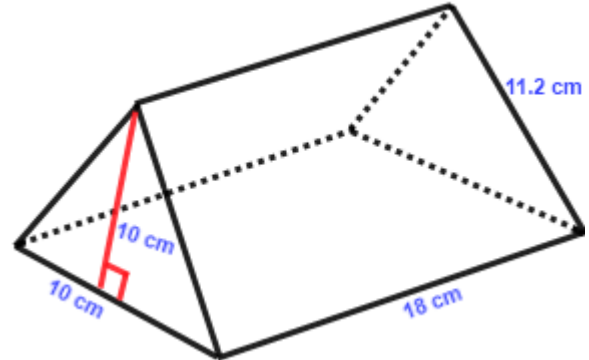


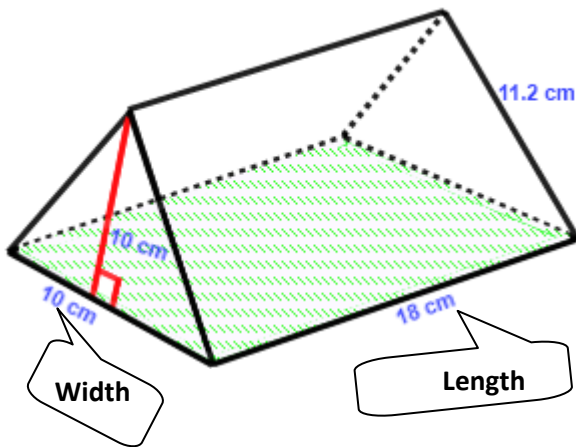
## How To Find The Volume Of A Triangular Prism

Go through the following lesson and worksheets to learn how to find [the volume of a triangular prism](#) by using the area of a rectangular base. First problem is solved as an example.

**Problem:** Find the volume of the prism given at right. All the units are given along the edges of this prism.



**Solution:** Focus on the base of this prism which is a rectangle with length 18 cm and width 10 cm. and below is the same image with the shaded base rectangle to make it understood to all students.



Area of the rectangular base is given below:

$$\begin{aligned}\text{Area of base} &= \text{length} \times \text{width} \\ &= 18 \times 10 \\ &= 180 \text{ cm}^2\end{aligned}$$

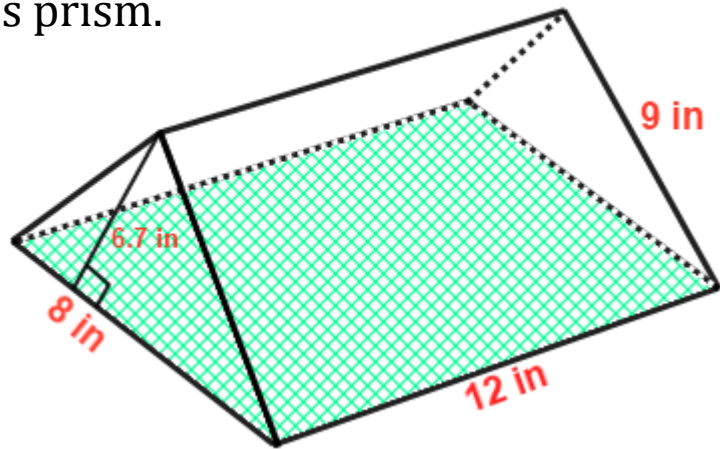
Now Volume of the triangular prism =  $\frac{\text{Area of rectangular base} \times \text{height of prism}}{2}$

$$V = \frac{180 \times 10}{2} = 900 \text{ cm}^3$$

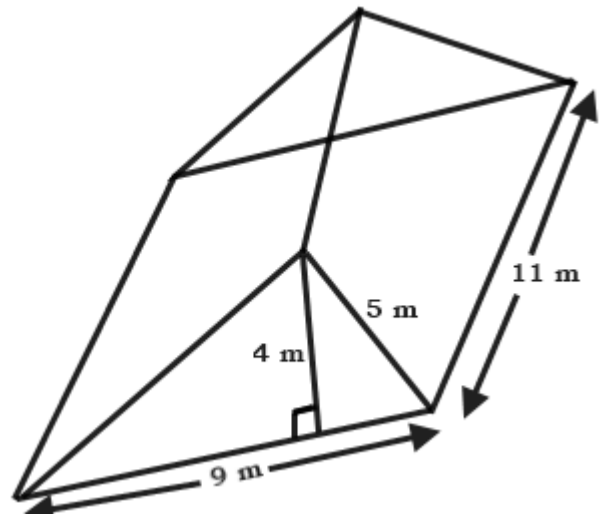
**Hint:** When the base of a triangular prism is one of the rectangular face, then don't forget to divide the product of base area and height by 2.

**Now you find the volume of the following triangular prisms**

1. Find the volume of this prism.



2. Find the volume of the triangular prism given below.



Answers: 1. 321.6 cu.in

2. 198 cu. m