

## Volume of triangular prisms

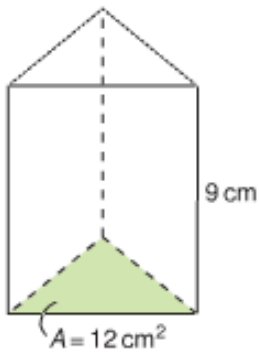
Volume = Area of the base  $\times$  height

REMEMBER THE BASE OF ANY TRIANGULAR PRISM  
IS A TRIANGLE

Answers are always in units<sup>3</sup> - cm<sup>3</sup>, m<sup>3</sup>, km<sup>3</sup>

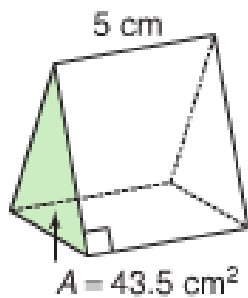
**Example 1** - when the area of the base is given.

$V = \text{Area of base} \times \text{height}$

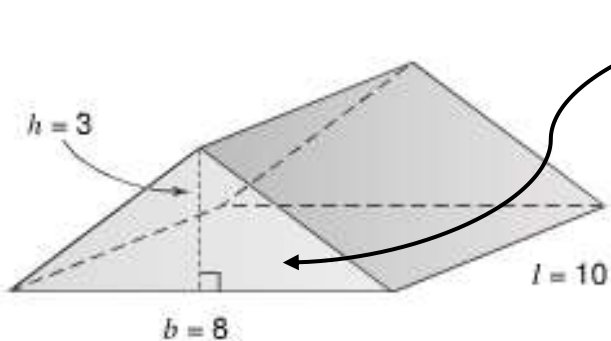


$$12 \times 9$$
$$72 \text{ cm}^3$$

Practice time



**Example 2** - when the area of the base is not given



$V = \text{Area of base} \times \text{height}$

$$\frac{bh}{2} \times h$$

$$\frac{(8)(3)}{2} \times 10$$

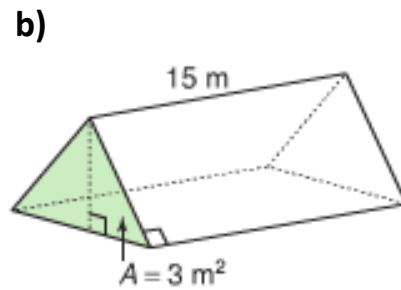
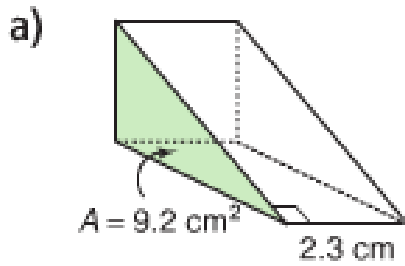
$$2$$

$$12 \times 10$$

$$120 \text{ unit}^3$$

**Practise - volume**

1. Find the volume of the triangular prisms when the area of the base is given. **SHOW** your work.  $V = A_{\text{base}} \times \text{height}$



2. Find the volume of the rectangular and **SHOW** your work.  $V = \text{area base} \times h$

