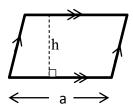
## Covid-19 (Sathi Pasala) September-4<sup>th</sup> week Grade 9 (23) Area

- ❖ Do the review exercise given in your textbook to recall your previous knowledge.
- ❖ The area of a parallelogram
  A quadrilateral with opposite sides parallel to each other is called parallelogram.

Do the activity 01 given in the textbook page number 31.

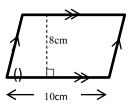
According to the activity,

Area of a parallelogram= Base × Perpendicular height



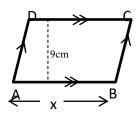
Area of a parallelogram =  $a \times h$ 

Ex:- (1) Find the area of the following parallelogram.



Area= Base× Perpendicular height =  $10 \times 8$ =  $80 \text{cm}^2$ 

(2) The area of the following parallelogram is 72cm<sup>2</sup>. Find the length of AB



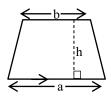
Area= AB 
$$\times$$
 9  
 $\frac{72}{9}$  =  $\mathbf{X} \times \frac{9}{9}$   
8cm =  $\mathbf{X}$   
AB =8cm

Do the exercise 23.1.

## The area of a trapezium

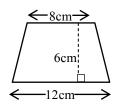
A quadrilateral with one pair of sides parallel is called a trapezium.

❖ Let's take the length of parallel sides as **a,b** and the perpendicular distance between these two sides as **h**.



The area of the trapezium = 
$$\underline{\mathbf{1}}(a+b) \times h$$

Ex: - Find the area of the following trapezium.



The area of the trapezium = 
$$\underline{\mathbf{1}}$$
(a+b) ×h
2
=  $\underline{\mathbf{1}}$ (12+8) ×6
2
=  $\underline{\mathbf{1}}$ ×20×6
2
= 60cm<sup>2</sup>

Do the exercise 23.2