

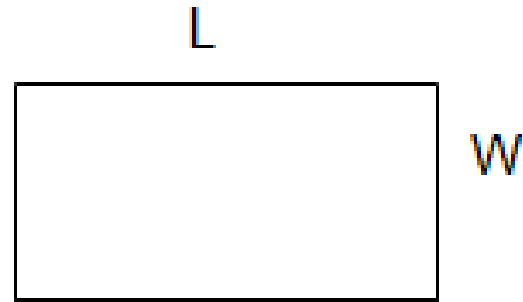
Area of Parallelograms

Objectives:

By the end of this lesson students will be able to apply formulas for area of parallelograms.

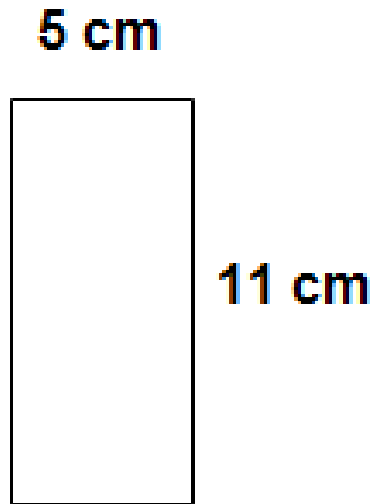
Quick
Review:

Area of a rectangle



$$\text{Area} = L \times W$$
$$\text{Area} = \text{Length} \times \text{Width}$$

Example:



$$\text{Area} = L \times W$$
$$\text{Area} = 5 \text{ cm} \times 11 \text{ cm}$$
$$\text{Area} = 55 \text{ cm}^2$$

A parallelogram

...

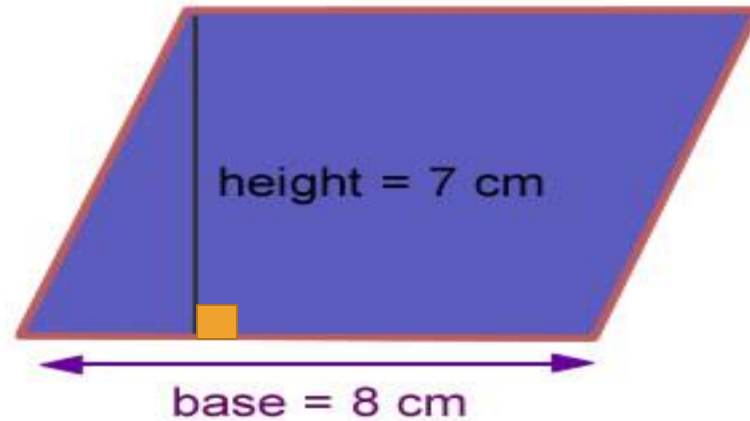
- 1) Quadrilateral: 4-sided polygon
 - 2) Formed by two pairs of parallel lines
 - 3) Opposite sides are equal in length and opposite angles are equal in measure
- *A rectangle is a parallelogram where all angles are right angles!

Example 1

Area of Parallelogram

The area of a Parallelogram equals the base times the height.

$$A = b \times h$$



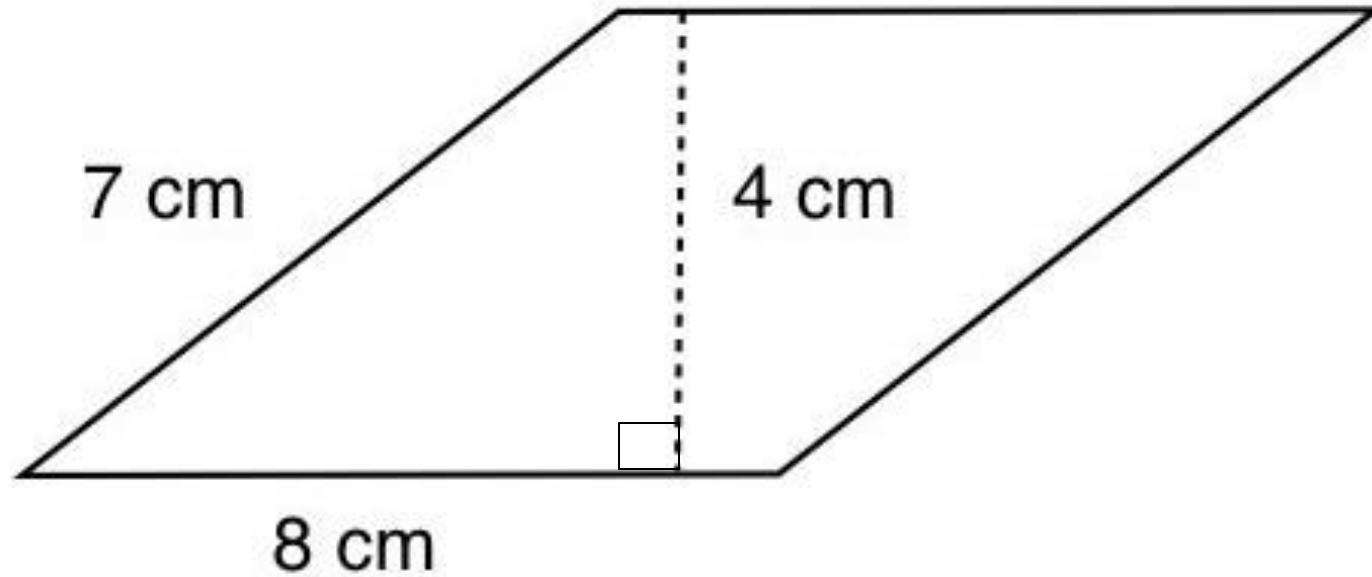
$$A = b \times h$$

$$A = 8 \times 7$$

$$A = 56 \text{ cm}^2$$

NOTE- The height is the perpendicular height

Example 2

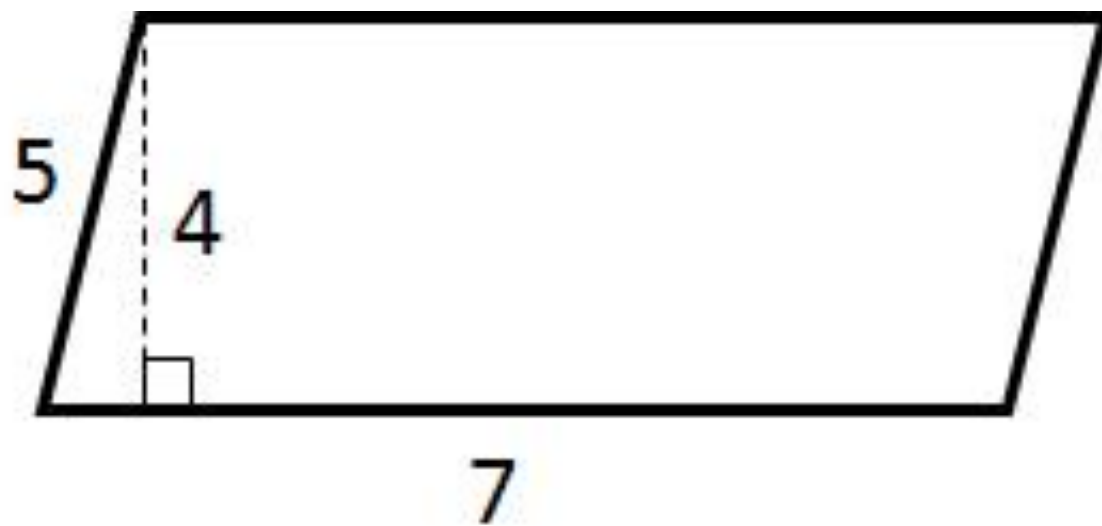


Step 1: $A = bh$

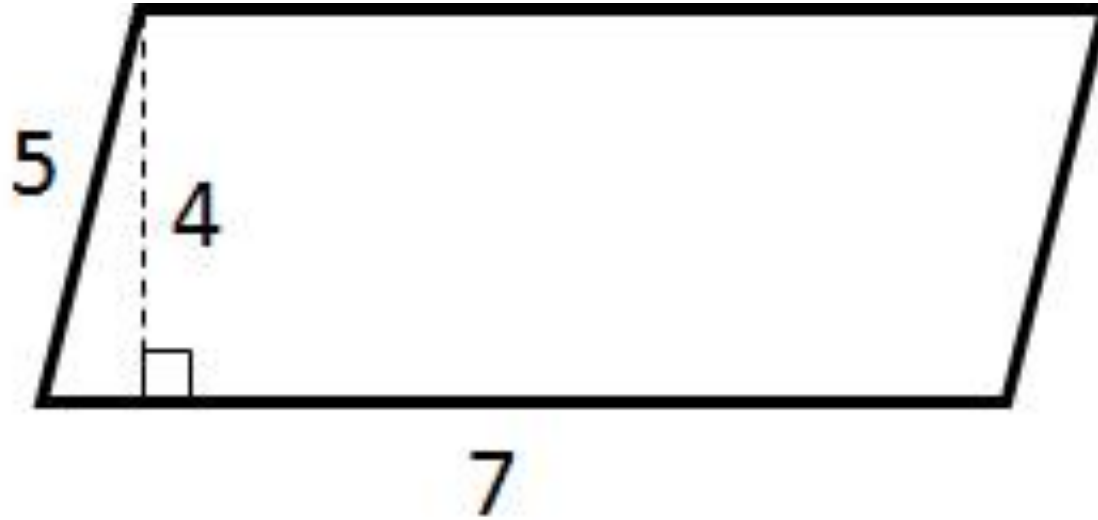
Step 2: $A = 8\text{cm} \times 4\text{cm}$

Step 3: $A = 32\text{cm}^2$

Practice 1



Practice 1

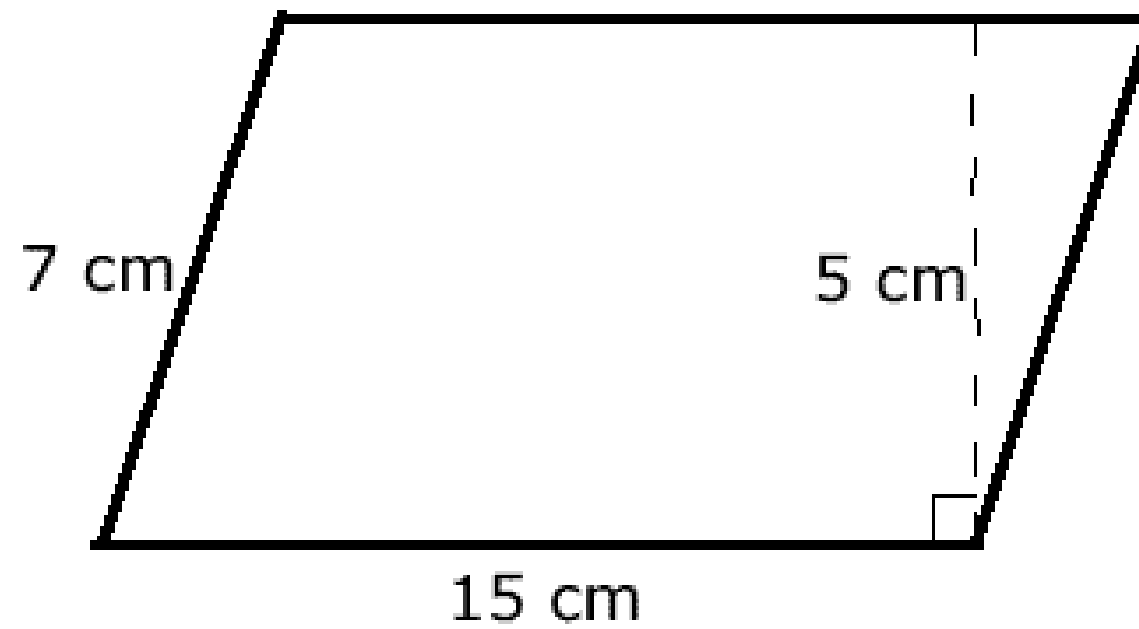


Step 1: $A = bh$

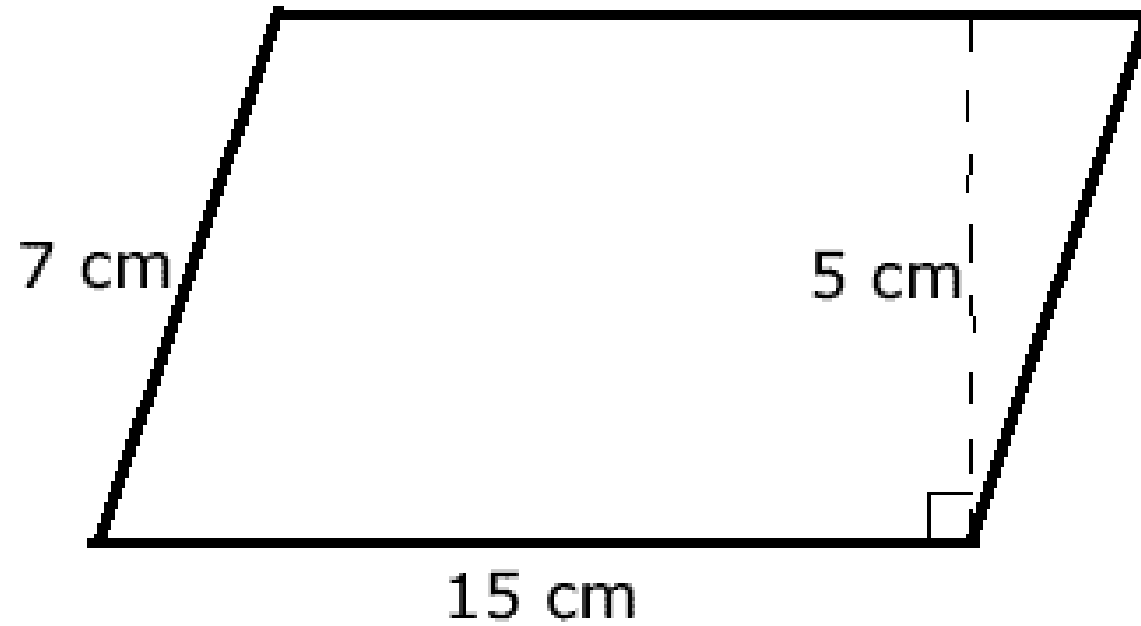
Step 2: $A = 7 \times 4$

Step 3: $A = 28 \text{ (units)}^2$

Practice 1



Practice 1



Step 1: $A = bh$

Step 2: $A = 15 \times 5$

Step 3: $A = 75 \text{ cm}^2$

**What
have you
learnt?**



Draw your brain



Write or **draw** everything you can remember about Calculating the area of a parallelogram. It can be an example, a reflection, or something else that might be prominent in your brain.



How well
did you
understand
the lesson?

Are you able to apply formulas for area of
parallelograms?



**I don't
understand**



**I nearly
understand**



**I fully
understand**



Additional
Online Practice



Or copy the link below and paste in your browser

<https://www.mathgames.com/skill/7.121-area-of-rectangles-and-parallelograms>