

# Worksheet (2) | Lower Secondary Stage (6-8)

1<sup>st</sup> Semester | 2023-2024

**Subject:** Math

**Class :** Grade 7

Name:.....

**Objectives:**

- Construct and Solve linear equations with brackets.

Teacher's name

When solving equations it is important that  
whatever is done to one side of the equation is done to the other side

**Exercise 1: Solve the following equations :**

1)  $3(x + 1) = 21$

2)  $4(2x - 6) = 8$

3)  $2(x + 1) + 4x = 14$

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$$4) 5(3 + x) = 7x$$

$$5) 3(x - 4) = 2(x + 5)$$

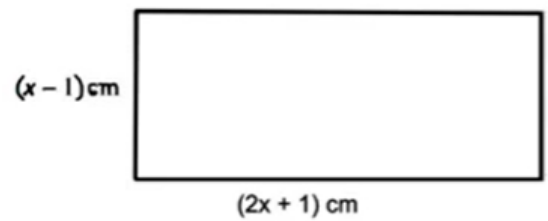
$$6) 7(m + 3) = 4(m + 6)$$

$$7) 3(2x - 1) + 7 = 16$$

$$8) 2(5x) + 2(x + 1) = 6$$

### Exercise 2 :

The perimeter of this rectangle is **30cm** , write an equation and solve it to find the value of  $x$  .



## PERIMETER of a Rectangle

Diagram of a rectangle with length  $L$  and width  $W$ .

Formula:

$$P = 2L + 2W$$

where  $P$  stands for Perimeter,  $L$  for Length and  $W$  for Width

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### Exercise 3 :

If the area of this rectangle is **55cm<sup>2</sup>** , write an equation and solve it to find the value of  $x$  .

