

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

1st Semester | 2023-2024

Subject: Math

Class : Grade 7

Name:.....

Objectives:

- Construct and Solve linear equations with brackets.

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

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

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

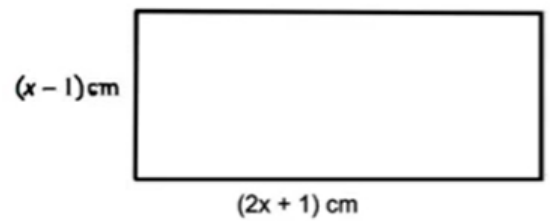
$$6) 7(m + 3) = 4(m + 6)$$

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

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

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

A yellow rectangle with length L and width W . The top and bottom sides are labeled L , and the left and right sides are labeled 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^2** , write an equation and solve it to find the value of x .

