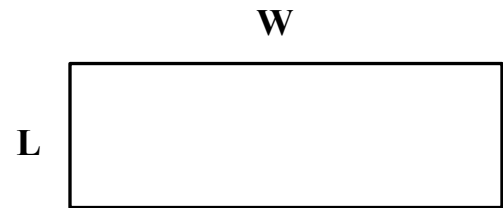


You’ve learned previously that there are a few different ways to represent the formula for the PERIMETER of a rectangle.

In the diagram to the right,

- **W** represents the horizontal distance (across) the rectangle
- **L** represents the vertical distance (up/down) the rectangle

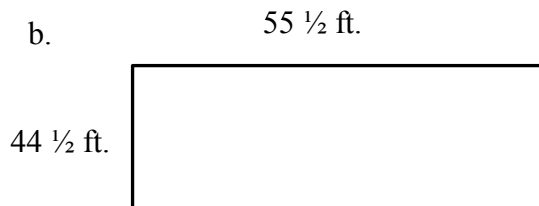


Thus, we can represent the PERIMETER of the rectangle in 3 different (yet equivalent) ways:

$$P = L + W + L + W \quad \text{or} \quad P = 2L + 2W \quad \text{or} \quad P = 2(L + W)$$

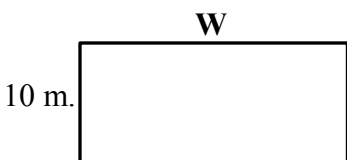
- Write a simple phrase to complete each sentence that explains what each version of the formula tells us to do to find the perimeter of any rectangle:
 - The 1st version of the formula tells us we can just _____.
 - The 2nd version tells us we could _____.
 - Or, the 3rd version tells us we could _____.
- Use the $P = 2(L + W)$ version of the formula to determine the perimeter of the following rectangles (this version tells us to “add the length and the width, then double that sum”).

- A rectangle with a length of 13 cm. and a width of 21 cm.

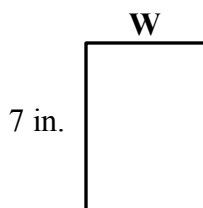


- In the rectangles below, you are given the length and the perimeter.
 - The $P = 2(L + W)$ version of the formula can also be thought of as $\frac{P}{2} = L + W$. This version tells us that the sum of the Length and the Width will equal **one-half of the Perimeter**.
 - Use this idea (that “the sum of L and W will equal one-half of the Perimeter”) to help you determine the width of the following rectangles.

- P = 80 meters



- P = 24 inches



- P = 20 feet

