3-11 More Expressions and Equations

Write an expression for the sum of two consecutive integers

Let:
$$N = 1st \#$$

Write an expression for the sum of an even integer and the next consecutive even integer.

Let:

$$\begin{array}{ccc}
1st & + 2nd \\
n & + (n+2)
\end{array}$$

+

The sum of an integer and twice the next consecutive integer is 29. What are the integers?

$$2(n+1) = 2nd #$$

$$2(9+1) = 2(10) = 20$$

$$1st # + 2nd # = 29$$

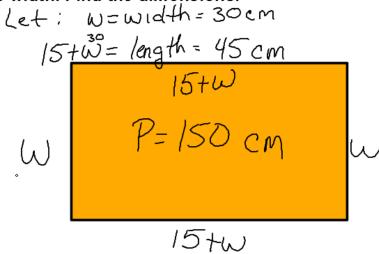
$$1 + 2(n+1) = 29$$

$$1 + 2n+2 = 29$$

$$3n+2 = 29$$

$$3n+2 = 29$$

The perimeter of a triangle is 150 cm. The length is 15 cm greater than the width. Find the dimensions.



$$15+\omega+\omega+15+\omega+\omega=150$$

 $4\omega+30=150$ $4\omega-120$ $\omega=30$ cm