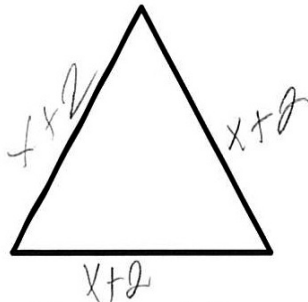The triangle shown below is equilateral, that is, all sides are of equal length.

The length of one side is represented by the expression $x + 2$ so that the perimeter of the triangle can be represented by the expression:

$$(x + 2) + (x + 2) + (x + 2)$$

1. Use the properties of operations to write a second expression that is equivalent to this expression.

$$3(x+2)$$

This expression shows that 3 is being multiplied by x+2.

2. Explain, using properties of operations, why the two expressions are equivalent.

These two expressions are equal because both expressions show that x+2 is being added to each other 3 times.