Topic 3 L. 1: Writing and Expanding Multiplication Expressions

Warm-Up

The operation of multiplication can be written a few different ways. Write the four different ways we can represent the multiplication operation.

**Guided Practice**

By **combining like terms**, we write each expression using the fewest number of symbols and characters. Use math terms to describe the expressions and parts of the expression. This is called **standard form**.

1. h

To expand multiplication expressions we will rewrite the expressions by including the “” back into the expressions. . This is called expanded form.

1. Find the product of .
2. Multiply .
3. Double the product of and .

Homework

Lesson Summary

**An Expression in Expanded Form:** An expressionthat is written as sums (and/or differences) of products whose factors are numbers, variables, or variables raised to whole number powers is said to be in *expanded form*. A single number, variable, or a single product of numbers and/or variables is also considered to be in expanded form.

**AN EXPRESSION IN STANDARD FORM:** An expression that is in expanded form where all like-terms have been collected is said to be in *standard form.*

1. Rewrite the expression in standard form (use the fewest number of symbols and characters possible).
2. Write the following expressions in expanded form.
3. Find the product.