Topic 3 L.2: Distributing Expressions

Warm-Up

Opening Exercise

* 1. Create a model to show .
  2. Create a model to show , or .

**Guided Practice**

1. Write an expression that is equivalent to *.* What form is 2(a + b)?
2. Create a model to represent .
3. The expression tells us that we have of the ’s. Create a model that shows groups of .
4. How many ’s and how many ’s do you see in the diagram?
5. How would the model look if we grouped together the ’s and then grouped together the ’s?
6. What expression could we write to represent the new diagram? What form is the expression written in?
7. Solve the expressions. Let and
8. Write two expressions that are equivalent to double *.* To double means to
9. Are the expressions in factored form, expanded form, or neither?
10. Make a model to show 3x + 4y.
11. How can we change the model to show ?
12. Are there terms that we can combine in this example? What are they?
13. What is an equivalent expression that we can use to represent ?
14. Write an expression in factored form that is equivalent to the model below.
15. How can we rewrite this expression in expanded form?
16. Write an expression in expanded form that is equivalent to .

Independent Practice

Create a model for each expression below. Then write another equivalent expression using the distributive property.

Apply the distributive property to write an equivalent expression in expanded form.

Homework

1. Use the distributive property to write the following expressions in expanded form.
2. Create a model to show that .