

Name: _____

Date: _____



Wendy's Combo Meals and the Distributive Property!

Write each order as an algebraic expression and then use the distributive property to simplify the expression!

1. The Vaughn family decides to order the combo meal of a chicken sandwich, apple slices, and a drink. There are 5 members in the family. Write the problem as an algebraic expression and simplify!

$$5 \left(\text{chicken sandwich} + \text{apple slices} + \text{drink} \right) =$$

2. Ms. Callahan, Ms. Dengos, Mrs. Heim and Ms. Kirby happen to go to Wendy's together for dinner. And what a coincidence, they all order the same thing: a hamburger, side salad, and a drink!

$$4 \left(\text{hamburger} + \text{side salad} + \text{drink} \right) =$$

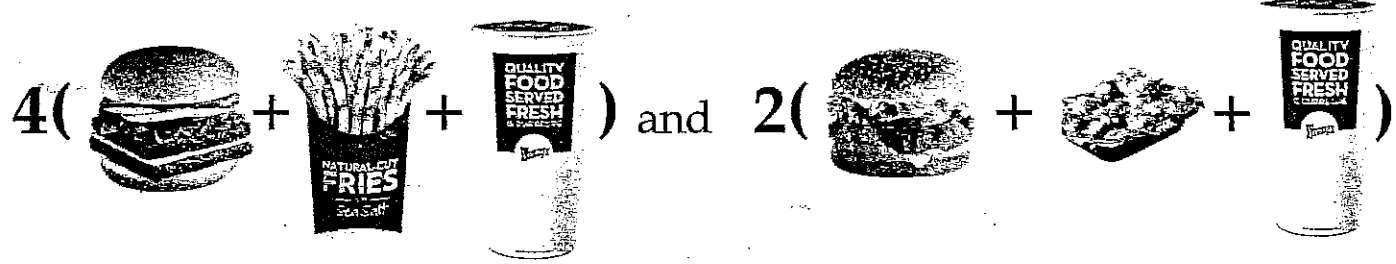
We can write our order as an algebraic expression! Let c = one chicken sandwich, f = one order of fries, and d = one drink.

$$c + f + d$$

Since we ordered 6 combo meals, we would multiply our expression by 6.

$$6(c + f + d) =$$

Let's look at another example. What if 4 of us wanted to get a hamburger with fries and the other 2 wanted a chicken sandwich with a side salad (which all include a drink)? How could we apply the distributive property to those two combo meals?







OR $4(h + f + d)$ and $2(c + s + d)$

One more example:

What if we all wanted apple slices and let's 'pretend' they only came in orders of 2? How many orders would we need to get? _____

We can represent this order using the distributive property as well.

1 order =  which can also be shown as 2  and represented as the algebraic expression, $2a$.


 $3(2 \text{  }) =$

or

$$3(2a) =$$

Let's try a few problems without the Wendy's food!

1. $3(x - 14) =$

2. $4(2x + 8) =$

3. $8(-2x + 9) =$

4. $-5(-7x + 13) =$

5. $-2(3x - 6) =$

6. $6(-4x + 11) =$

