Sara and Joe went to McDonalds. Write an expression to represent the food they ordered:

Let c = # of cheeseburgers
f = # of large french fries
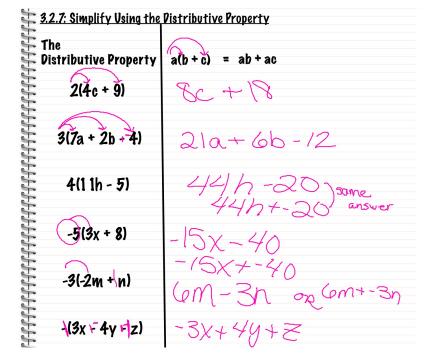p = # of large pops
n = # of chicken nuggets

$3c + f + 2p$

Then Molly and Mark decided to place the same order.

$3c + f + 2p$

Write an expression to show how you can find the total food ordered by Sara, Joe, Molly and Mark.

$3c + f + 2p$ + $3c + f + 2p$ = $6c + 2f + 4p$

OR

$2(3c + f + 2p)$ = $6c + 2f + 4p$

The Family Deal at Pizza Hut includes:

Let p = # of pieces of pizza
b = # of breadsticks
w = # of wings
n = # of bottles of pop

Write an expression to represent the Family Deal.

$16p + 5b + 8w + n$

At the end of the season, the volleyball team had a pizza party. To feed everyone, they ordered 3 Family Deals. Write an expression to represent the food they ordered.

$3(16p + 5b + 8w + n)$ = $48p + 15b + 24w + 3n$

3.2.7: Simplify Using the Distributive Property

The Distributive Property | $a(b + c) = ab + ac$

$2(4c + 9)$ | $8c + 18$

$3(7a + 2b - 4)$ | $21a + 6b - 12$

$4(11h - 5)$ | $44h - 20$ } same answer
$44h + -20$

$-5(3x + 8)$ | $-15x - 40$
$-15x + -40$

$-3(-2m + n)$ | $6m - 3n$ or $6m + -3n$

$-(3x - 4y + z)$ | $-3x + 4y + z$

Simplify Using the Distributive Property

$3(4 + 2m)$ | $12 - 6m$

$-(2x - 7)$ | $-2x + 7$

$(4x - 3)2$
$2(4x - 3)$ | $8x - 6$

$6(-3x + 2)$ | $-18x - 12$

$(-2x - 1)(-3)$ | $6x + 3$

$-(-x - 2)$ | $x + 2$