Menu Math

Name_____

Evaluate each expression using the menu.
Show your work below each problem.

Hamburger..............	$1.85
Cheeseburger.........	$2.15
Fries......................	$1.25
Sodas:	
Small.................	$1.05
Medium.............	$1.35
Large.................	$1.65
Extra Large	$1.95

1) $h + f + m =$

2) $l + c + x + f =$

3) $4h =$

4) $2c + f =$

5) $6f + 3c + 2x - 2m$

6) $8x + 6m + 10c + 5l =$

7) $4l + 4s + 4m =$

8) $6c - 2c =$

9) $6m + 3h + 2c - 4m =$

10) $8f - 3h =$

11) $3h - 4c =$

12) $6x - 3s - 5c + 7h =$

Write a dialog or skit for each of the following algebraic orders.

$3x + h + c$

$2h + 2f + 2m$

$(h + 2f) + (2c + x)$

$(3h + f + x) + (h + f + s)$

$(h + f + m) + (h + f + m) + (h + f + m)$

$(2c + f + x) + (2h + f + x)$

Write the following orders as algebraic expressions.

I'd like four hamburgers, six orders of French fries, a large soda, two medium sodas, and an extra large soda.

I want three cheeseburgers, one hamburger, a small soda, two fries, a medium soda, and another hamburger.

I want a cheeseburger and an order of fries with a medium soda, my son wants two hamburgers an order of fries, and a medium soda, and my daughter wants a cheeseburger, an order of fries and a large soda. Oh yes, my husband wants two orders of fries, a cheeseburger and a large soda.

Let's see... I think I'd like three hamburgers and a cheeseburger, three fries, a large soda, two medium sodas, and an extra large soda. Add another order of fries on that, and make one of those hamburgers another cheeseburger.

Different members of the same family placed the following orders. Simplify the orders by combining like items.

$(2h + f) + (c + f + s) + (h + m + f) =$

$(x + c) + (2f + c + x) + (m + 2f + c) =$

$(h + x + f) + (h + x + f) + (h + x + f) =$

$(3h + m) + (2c + f + m) + (c + m + 2f) =$

$(4c + f + m) + (3h + f + m) - h + c =$

$(3h + 2f + x) + (c + f + m) - (h + m + f) =$

$(5h + 3f + 2m) - (h + f + m) + (c + 2x) =$

$(3h + f + x) + (h + f + m) - (h + f) + c =$

Write what each customer ordered and calculate how much was paid for each order:

$3h + 3f =$

$3h + f =$

$3(h + f) =$

Which two customers ordered the same food and paid the same price? Write the two orders below:

_____ = _____

This is called the "Distributive Property."

Use the distributive property to rewrite each order below:

$4(c + m) =$

$2(3h + x) =$

$3(c + f + s) =$

$5(2c + m + h + 4x) =$

___$(c + x + 2f) = 3c + 3x + 6f$

___$(2h + f + $___$ s) = 8h + 4f + 16s$

$5($_____$) = 10c + 15h + 5m$

___$($_____$) = 6h + 6x$

___$($_____$) = 8c + 4f$

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Distribute the following orders and combine like terms.

1) $4(h + m) =$

2) $3(x + m + c) =$

3) $7(2c) =$

4) $5(3h + s) =$

5) $8(2c + 4f + x) =$

6) $4(3h + c + f + 5m) =$

7) $13(2m + 2c - 4h) =$

8) $7(3h - 5s + 12m) =$

9) $-4(3c + f) =$

10) $-6(4x + 2s - 3f) =$

11) $-5(7h - c - 9l) =$

12) Evaluate problem number 4 by substituting the values from the menu.

13) Evaluate problem 7.

14) Which problems would have a negative value?

15) Which of these orders would not happen in reality?

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Simplify these orders by combining like terms. When necessary, distribute first.

1) $6h + 3c + h =$

2) $2c + 3x + 5m + 4x + m =$

3) $6c + 2f + 4c + 3x + f + 2m + 6x =$

4) $3(m + h) + 2m =$

5) $7s + 4(h + 2l) =$

6) $3m + 6(h + 2m) + 5h + x =$

7) $4(h + f + m) + 3(c + f + l) =$

8) $2(5x) + 3c + 4(x + c) =$

9) $5h + 6m + 3l + f + (h + f) - 2m =$

10) $(c + x) + 3(h + x) + (2m + c) - h =$

11) $7(h + 2m) + 2(x + h) + 3h + m - (h + x) =$

12) $(2c + s) + 4h + 4(h + f + m) - 3(h + s) =$

13)   Evaluate problem 8.

14)   Evaluate problem 10.

15)   Which two orders are identical?