

MATH 6

Distance Learning 2020

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Math 6
Period ALL

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Menu Math 2

Today we are going to make these problems a little more interesting for you. To start, we are going to give you a story and ask you to write the order as an expression. Then, you'll substitute in values from the menu and evaluate (solve) each expression.

Let's do the first together:

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

Menu Math

Hamburger.....	\$1.85
Cheeseburger.....	\$2.15
Fries.....	\$1.05
Sodas:	
Small.....	\$.95
Medium.....	\$1.25
Large.....	\$1.55
Extra Large.....	\$2.05

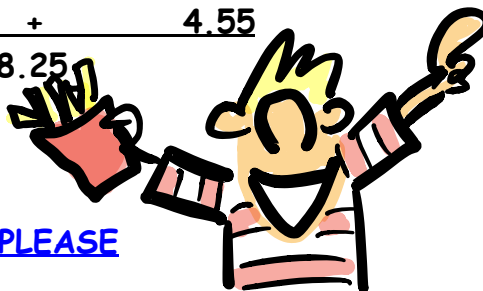
Expression: $4h + 6f + 2m + 1x$

Sub in values: $(4 \cdot 1.85) + (6 \cdot 1.05) + (2 \cdot 1.25) + (1 \cdot 2.05)$

Evaluate: $\underline{7.40} + \underline{6.30} + \underline{2.50} + \underline{2.05}$

$\underline{13.70} + \underline{4.55}$

Solve: \$18.25



Now YOU TRY: SHOW ALL WORK, PLEASE

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

Write an expression:

$$3c + h + s + 2f + m + h$$

Sub in values:

$$3(2.15) + 1.85 + .95 + 2(1.05) + 1.25 + 1.85$$

Evaluate:

$$\begin{array}{ccccccc} \checkmark & & \checkmark & & \checkmark & & \checkmark \\ 6.45 & + & 2.80 & + & 2.10 & + & 3.10 \end{array}$$

$$\begin{array}{ccc} \checkmark & & \checkmark \\ 9.25 & + & 5.20 \end{array}$$

$$= 14.45$$

\$14.45

We also could have combined like terms: $3c + 2h + 2f + s + m$

2. 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.



Write an expression: $C + F + M + 2H + F + M + C + F + L + 2F + C + L$

$$\begin{array}{r} 2 \quad 1 \\ 6.45 \\ 3.70 \\ 5.25 \\ 2.50 \\ + 3.10 \\ \hline 21.00 \end{array}$$

\$21

Sub in values:

Combine: $3C + 2H + 5F + 2M + 2L$
 Evaluate: $3(2.15) + 2(1.85) + 5(1.05) + 2(1.25) + 2(1.55)$
 $6.45 + 3.70 + 5.25 + 2.50 + 3.10$

3. 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. **CAREFUL! Take a hamburger away!!**

$$\begin{array}{r} 2 \quad 1 \\ 3.70 \\ 4.30 \\ 4.20 \\ 1.55 \\ 2.50 \\ + 2.05 \\ \hline 18.30 \end{array}$$

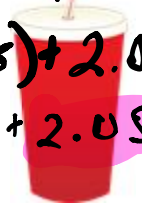
Write an expression:

$$3H + C + 3F + L + 2M + X + F - H + C$$

Sub in values:

\$18.30

Evaluate: $2(1.85) + 2(2.15) + 4(1.05) + 1.55 + 2(1.25) + 2.05$
 $3.70 + 4.30 + 4.20 + 1.55 + 2.50 + 2.05$



Different members of the same family placed the following orders. Simplify the orders by combining like items. You do not need to evaluate the orders.



4. $(2h + f) + (c + f + s) + (h + m + f) =$

$$3h + c + 3f + m + s$$

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

$$2x + 3c + 4f + m$$

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

$$3h + 3x + 3f$$

7. $(3h + m) + (2c + f + m) + (c + m + 2f) =$

$$3h + 3m + 3c + 3f$$



You CAN FACTOR!

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

You CAN FACTOR

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

**NO EVALUATING.
JUST COMBINING
LIKE TERMS**

NICE JOB!