Write the following orders as algebraic expressions. (polynomials)



I'd like four hamburgers, six orders of French fries, a large soda, two medium sodas, and an extra large soda. YA+6++11+2m+1x

I want three cheeseburgers, one hamburger, a small soda, two fries, a medium soda, and another hamburger. 3c + 1h + 1s + 2f + 1m + 1h= 3c + 2h + 1s + 2f + 1m

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 1 c + 1 f + 1 m + 1 c cheeseburger and a large soda. + 2 h + 1 f + 1 m + 1 c + 1 f + 1 l + 2 f + 1 c + 1 l

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.

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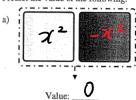
5.2 – Like Terms & Unlike Terms
Focus: Simplify polynomials by combining like terms

Recall: Last year when we added and subtracted integers we learned about the concept of





Predict the value of the following:







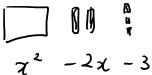
Ex. 1: +4 -22 State the Polynomial:

a) Rearrange the tiles by organizing them according to their shapes.

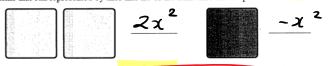


b) Remove zero pairs.

c) What polynomial remains?



Terms that can represented by tiles that are of the same size and shape are called like terms.



Symbolically, terms that have the same variables, raised to the same exponents are called like terms.

Terms that are represented by tiles that are of the different size and shape are called **unlike terms.**



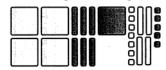
To simplify a polynomial we group like terms and remove zero pairs.

To simplify a polynomial we group like terms and remove zero pairs.

To symbolically simplify a polynomial, combine like terms by adding the coefficients of like terms.

We can only combine like terms.

Ex. 2: Use Algebra tiles to simplify the following polynomial.



Polynomial:

Tiles:

Like Terms? (Yes or No)

- b) x x x No
- c) 2x x /

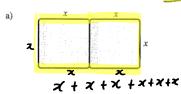
- d) x x e) $-3x^2 + 8y^2 = N0$

a) xy yx / xy+yx = 2xy

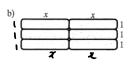
Ex. 3: Simplify: $12x^2$ $13 - 5x + 6 - 10x - 16x^2$ 12x2-16x2-52-10x-13+6

-4x2 -15x -7

Ex. 4: Write a polynomial to represent the perimeter of each rectangle.



=6x



Ex. 5: Each polynomial represents the perimeter of a rectangle. Use algebra tiles to model the rectangle.





Ex. 6: Simplify: $3xy - y^2 + 4x - 5xy - 6y - 8y^2$

3xy -5xy - y2-8y2 +4x -6y -2xy - 9y2 +4x -6y

Assignment . "Algebra Dude Art" Like-Terms Assignment · Sec. 5.2 Like vs. Unlike Terms Worksheet
. Mill To the Date Cat - Dana 12" Warksheet 1 chara 10 Assignment: "Algebra Dude Art" Like-Teims Assignment

Sec. 5.2 Like vs Unlike Terms Worksheet

"Why Did the Donkey Get a Passport?" Worksheet (Choose 10

HW Assignment

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