**Lesson 2-8: Like and Unlike Terms**

Last day we were learning about how to represent polynomials. (Shaded is positive and non-shaded is negative)

Eg represent 

With your tiles make zero with your tiles two different ways

What if we were given the following set of algebra tiles. We would rearrange them to look like this:

Write a polynomial expression to represent this new arrangement : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

We simplify the polynomial by removing **zero pairs,** and whatever is left is the **simplified polynomial.**

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A polynomial is in **simplified form** when:

-its algebra tile model uses the fewest possible number of tiles

-Its symbolic form contains only one term of each degree and no terms with a zero coefficient

Terms that can be represented by the same type (same size and same shape) of algebra tile are called **like terms.**

Symbolically to find if we have like terms, just look at the variables and the exponents within the variables. Like terms will be the same.

Eg are each of the following Like Terms

 and   and   and 

 and   and 

**IMPORTANT:** To simplify a polynomial just combine like terms and remove any zeros

Simplify 

Alga Tiles Symbolically

Simplify 

Alga Tiles Symbolically

Simplify 

Alga Tiles Symbolically

Write a polynomial to represent the perimeter of each of the arrangements of alga tiles.



Use your alga tiles and make an arrangement that has the perimeter of

 

Simplify 

Homework pg 222 #8, 10, 11a-c, 12a-c, 14a-c, 19a +b