


Intro to Algebra Tiles #2


Name:


Date:


Period:

 = 1

 = x

 = x^2

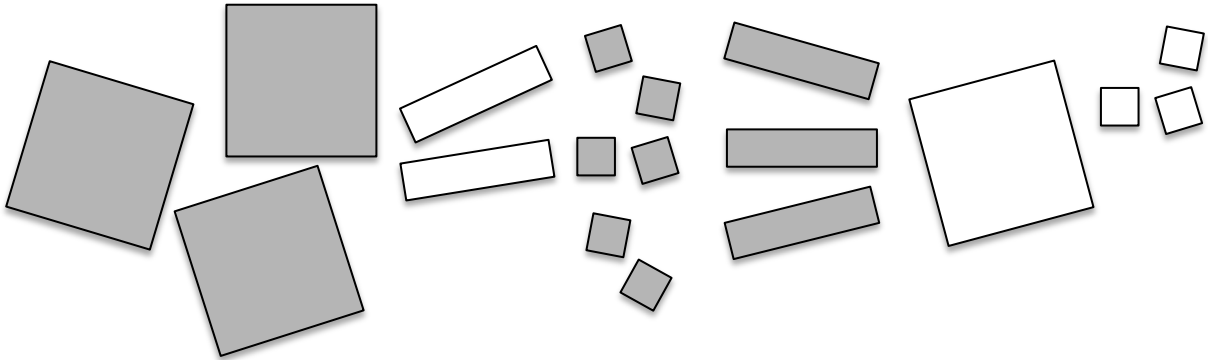
 = $-x^2$

 = -1

 = $-x$

Write algebraic expressions for the following collections of algebra tiles as they appear (from left to right). Then rewrite the expressions by combining like terms.

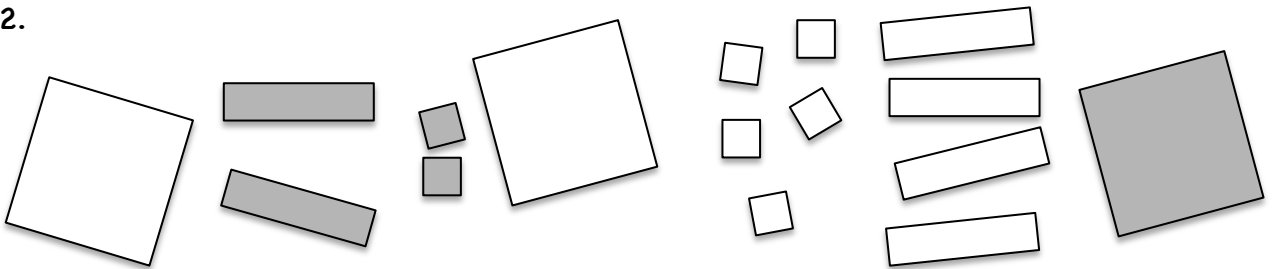
1.



Expression as they appear (from left to right):

Expression with like terms combined:

2.

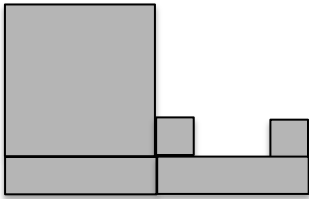


Expression as they appear (from left to right):

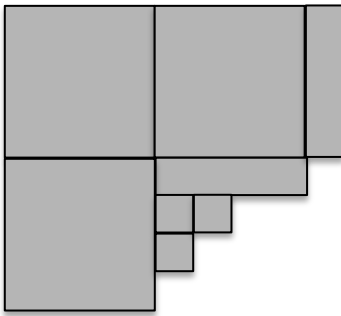
Expression with like terms combined:

For each of the following shapes, made from a collection of algebra tiles, write an algebraic expression that represents the perimeter of the shape made from the algebra tiles. Then, if possible, simplify the expression. Show and/or explain how you determined the expression.

3.



4.



Caution: The following items may be a bit challenging! But, you can do it!

5. Calculate the perimeter of the shape from item #4 if the areas of x^2 tiles are 25 square units. Show all steps of your calculation.

6. Calculate the area of the shape from item #4 if sides of the x^2 are 4 units in length. Show all steps of your calculation.