Know vocabulary, notation,	Understand the big ideas	Be able to
properties, formulas		
An expression is a mathematical statement involving variables, constants and operations. An equation "equates" two or more expressions.  Working definitions of: term, like terms, coefficient, variable, monomial, binomial, polynomial, expression.  Order of operations  Factors represent lengths; products represent area.	Every automobile driver must follow the rules of the road to get somewhere, stay safe, and avoid crashes. The language of algebra – symbols, notation, rules, and properties – are like the rules of driving. They allow us to safely get somewhere mathematically using standard rules that we all agree on.  Multiplication can be modeled as the area of a rectangle. (Equations and expressions model relationships.)  Learning mathematics means learning	Evaluate expressions involving exponents and the distributive property.  Draw area models for expressions involving multiplication; and rewrite expressions using the area models as justification for equivalency (distributive property)  Determine the expression representing the area of a figure.  Determine the dimensions of a figure, given the expression representing the
	to reason. Providing evidence of your reasoning process is just as necessary as your final answer. Show the steps of your work; you'll have to do it in your profession.	area.  Rewrite expressions in equivalent forms using area models as justification for equivalency.  Show the steps of your work.

1	2	Target: 3	4	
Evidence that I am proficient in evaluating expressions:				
I can use order of operations correctly most of time but not always. I am working on integer ops; the idea that add/subtr and mult/div each have equal priority; 2(3) <sup>x</sup> means exponent, then multiply.	I am working toward being able to evaluate expressions correctly, but still have some misunderstandings.	I can evaluate expressions with multiple variables and exponents with positive integers.	I can evaluate complex expressions with nested grouping symbols, fractions, exponents and/or multiple variables.	
I can draw a rectangle and determine its area when the factors are integers. e.g. Draw a rectangle whose sides are m and n. Determine its area.  I can determine the dimensions of the rectangle when its area is an integer.	Itiplication with area:  I can draw a rectangle and determine its area when the dimensions are given in simple algebraic forms. (factors).  e.g. Draw a rectangle whose area is represented by the expression 2(x + 3)  Given the area of figure, as a simple polynomial ("tiles"), I can determine the dimensions of the figure (factoring).	I can rewrite expressions in equivalent forms using an area model for justification (inventing the Distributive Property). I can draw a rectangle and determine its area, given the dimensions in algebraic form (factors). e.g. Draw a rectangle whose area is represented by the (3x + 1)(2x + 3) expression: Given the area of figure, as a polynomial ("tiles"), I can determine the dimensions of the figure (factoring).	I can draw a rectangle and determine its area when the dimensions are given in complex algebraic forms. (factors).  e.g 5x+1= 1/2(10x+2)  Given the area of figure, as a complex polynomial ("tiles"), I can determine the dimensions of the figure (factoring).	
Evidence that I understand that the solution to a problem is the result of mathematical reasoning:				
I can write or verbalize the answer, not my solution process.	I can write or verbalize some evidence of my solution process, but it needs to be interpreted to fully understand my process.	I can write or verbalize complete evidence of my solution process.	I can write or verbalize organized and reliable evidence of my solution process and can justify the steps in my solution.	