



13. Using the following algebra tiles for	14. Write the equation of the Area of a rectangle
$y = x^2 + 12x + 32$, draw or make a diagram for Vertex	where the length is 5 inches shorter than twice the
Form.	width.

12. Using the algebra tiles for $y = x^2 + 12x + 32$, draw or make a diagram for x-Intercept/Factored Form. Factors:	Write the Quadratic in STANDARD form.			
15. Using the following algebra tiles for	16. Write the equation of the Area of a rectangle			
$y = x^2 - 8x + 15$, draw or make a diagram for Vertex Form.	where the length is 2 inches longer than three times the width.			
Using the algebra tiles for $y = x^2 - 8x + 15$, draw or make a diagram for x-Intercept/Factored Form.	Distribute to write the Quadratic in STANDARD form.			
Factors:	Write the Quadratic in STANDARD form.			
17. A new City Center is being built. The perimeter is 158 yards. The length is 2 yards less than double the width. What are the dimensions of the playing field. The width isyards. The length isyards.	 18. Write the following diagram in as a product of the array, or in x-Intercept form, and in Standard form. Image: Standard Form: TERMS: COEFFICIENTS: 			
19. Write vertex form for the following table: x f(x) 4 15	20. What would be the maximum area for a Rectangle pen with a Perimeter of 12 meters? x=length, y = Area			

5	18					
6	15	Write the equation for this situation in Vertex Form.				
7	6					
8	-9					
9	-30					
21. Compare the maximums in these 2 situations. Which		22. Find the quadratic equation to fit the data.				
f(x) is in	table	g(x) is equation below.	Seconds	feet		
	f () ₁ ()	$g(x) = -3x^2 + 12x + 69$	0	5		
0	5		1	29	-	
1	40			01	-	
2	65		2			
3	80			If this is a water balloon being launched straight up, then complete the following		
4	85		A water balloon is launched upward with an initial velocity of ft/sec from a platform ft high.			
5	80					
6	65		Equation:			
			Maximum height and time to get to the maximum height.			
			When will the object hit the ground?			