MasterMath

Name _____

Solve Linear Systems by Graphing

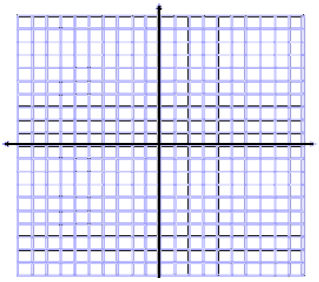
Date _____

1. **Graph these equations to determine what ordered pair, if any, satisfies both equations.**

a. $y = 2x - 3$

$y = 5 - 2x$

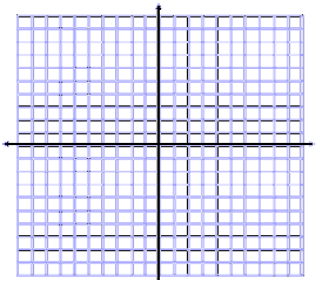
Ordered Pair



b. $x + y = 8$

$y = 3x$

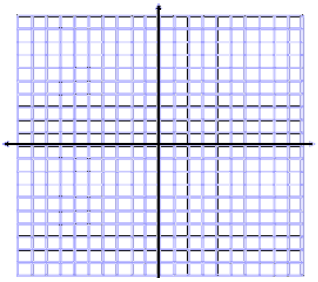
Ordered Pair



c. $y = 2x - 4$

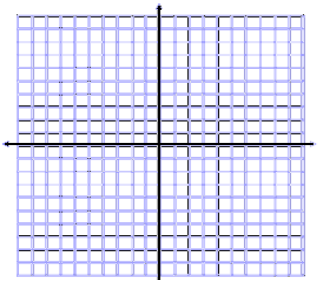
$y = 2x + 4$

Ordered Pair



2. **Write and graph 2 equations to determine the 2 numbers that satisfies this statement: the sum of two numbers is 8 and their difference is 4.**

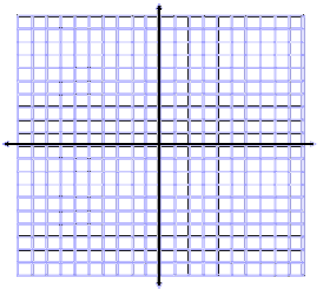
	Equation 1	Equation 2	Ordered Pair
Any form			
Slope-Intercept form			



3. **On the first day Joel sold 3 adult tickets and 1 child ticket for a total of $10. On the second day, he sold 6 adult tickets and 3 child tickets for a total of $18. What was the price of the adult tickets and the child tickets?**

Hint: let x = cost of adult tickets and y = cost of child tickets.

	Equation 1	Equation 2	Adult Tickets
Any form			
Slope-Intercept form			Child Tickets



4. **I have six coins in my pocket. They are all either pennies of nickels. The change in my pocket totals 18¢. How many pennies and how many nickels do I have?**

Hint: let x = number of nickels and y = number of pennies.

	Equation 1	Equation 2	nickels
Any form			
Slope-Intercept form			pennies