NAME	DATE	PER
BELL WORK	SOLVING SYSTEMS OF EQUATION	S
Use your calculator to determ	ine the solution to the following system	of equations: $5y = 6 + 2x$ 3x - 2y = 13
Matrices:	Graphing:	5x - 2y - 15
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		*

## MATCH TO THE GRAPH

Solve each equation for "y" then match to the graph.

System	Solve for y	Match to the graph
1. $x - y = 2$ y = -x + 5	y = y =	Graph
2. $y = -x + 2$ x - y = 5	y = y =	Graph
3. $y = x + 2$ -x - y = 5	y = y =	Graph

## For each problem below, set up a system of equations. <u>DO NOT SOLVE</u>.

4. A school principal ordered 100 pizzas for a total of \$1255. Cheese pizzas cost \$11.50 each and pepperoni pizzas cost \$13.00 each. How many cheese pizzas and pepperoni pizzas did the principal order?			
Define variables:	Equation:		
	Equation:		
5. At a restaurant, the cost for a breakfast taco and a small glass of milk is \$2.10. The cost for 2 tacos and 3 small glasses of milk is \$5.15. Find the cost of a taco.			
Define variables:	Equation:		
	Equation:		
6. The Frosty Ice-Cream Shop sells sundaes for \$2 and banana splits for \$3. On a hot summer day, the shop sold 8 more sundaes than banana splits and made \$156. How many sundaes and banana splits did the shop sell that day?			
Define variables:	Equation:		
	Equation:		
7. The perimeter of a rectangular wooden deck is 90 feet. The deck's length is 5 feet less than 4 times its width. Determine the dimensions of the wooden deck.			
Define variables:	Equation:		
	Equation:		
Solve the system of equations.			
8. A delivery van has a fixed cost for travel and a cha	arge per mile. If a 6-mile trip costs \$6.90 and an		
The trip costs \$11.40, what is the fixed cost?			

Define variables:

Equation: \_\_\_\_\_

Equation: \_\_\_\_\_

\_\_\_\_

9. An apartment building contained 52 units consistin \$320 per month each and two-bedroom apartments v building was fully rented and the total monthly rental were in the building?	ng of one-bedroom apartments which rented for which rented for \$400 per month each. If the was \$18400, how many apartments of each type
Define variables:	Equation:
	Equation:
Solution	
10. Jane and David picked 81 quarts of berries at Kill the number of quarts Jane picked, how many quarts	ng's Orchard. If David picked 6 more than twice did Jane pick?
Define veriables:	Equation
Denne vanables.	Equation
	Equation:
Solution:	