## Systems of Linear Equations - Word Problems

4-Step Method:

1. Define variables
2. Write the system of equations
3. Solve showing all steps
4. State your solution in sentence form
5. You and your friend go to a Mexican restaurant. You order 2 tacos and 2 enchiladas. Your friend orders 3 tacos and 1 enchilada. Your bill was $\$ 4.80$. Your friend's bill was $\$ 4.00$. What was the price of an enchilada?
6. x : "Price of a taco

Solve the system si owing allsters
$y$ : Price of anenchillada $y=4-3 x$

8. F or a community bake sale, you purchases 12 pounds of sugar and 15 pounds of flour. Your total cost was $\$ 9.30$. The next day, you purchased 4 mounds of sugar and 10 pounds of flour. Yourtotalcost the second day was $\$ 4.60$. Find the cost of a pound of sugar and a pound of flour.
1.


9. A travel agency offers different getaways to New York. Plan A includes hotel accommodations for 3-nights and 2-pair of baseball tickets for $\$ 645$. Plan B includes hotel accommodations for 5 -nights and 4 -pairs of baseball tickets for $\$ 1135$. How much does a single hotel cost and how much does a single pair of baseball tickets cost?
1.

10. Tickets for the theater are $\$ 5$ for the balcony and $\$ 10$ for the orchestra. If 600 tickets were sold and the total receipts were $\$ 4750$, how many tickets oteach type were sold?
1.

11. You bought 5 pairs of socks for $\$ 19$. The wool socks you bought cost $\$ 5$ per pair. The cotton socks you bought cost $\$ 3$ per pair. How many of each type of sock did youbuy?
1.


Solve the system showing all steps

State your solution:

12. A sporting good store sells right-handed and left-handed baseballaloves. In one month, 12 gloves were sold for $\bar{a}$ total revenue of $\$ 528$. Right-handed gloves cost $\$ 48$ and left-handed gloves cost $\$ 36$. How many right-handed gloves were sold?
1.


# Essential Question 11/29/17 

## How can I solve systems of equation by elimination?

Standard: MGSE9-2.A.REI. 5 Show and explain why the elimination method works to solve a system of two-variable equations.

# Day 7 - Solving Systems of Equations Elimination.ppt 

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