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

7. 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?



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 pounds of sugar and 10 pounds of flour. Your total cost the second day was \$4.60. Find the cost of a pound of sugar and a pound of flour.

cost of a lb. of sug Solve the system showing all steps cost of alb. of fu ZX x +15 5= 30 4x + 10u4.60 State your solution: The Cost of a lb of sugar (05·0) = 4.60 · 40c. and the 4200 alb. of flour is \$. 30c. ,40,0,30

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?



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 of each type were sold?



11. You bought <u>5 pairs of socks for \$19</u>. 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 you buy?



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

<u>l.</u>	
X: # of right-hand e	glockesSolve the system showing all steps
y: H of left-handed gu	ovel.
X + Y = 12	
$48 \times + 36 = 5 \times 8$	

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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