

**Math 2 Worksheet**  
**Systems of equations Word Problems**

- 1) At Imelda's fruit stand, you bought 5 apples and 4 oranges for \$10, and your friend bought 5 apples and 5 oranges for \$11.
  
- 2) The sum of two angles is  $75^\circ$ . Angle 2 is  $135^\circ$  smaller than 4 times angle 1. What are the measures of the two angles in degrees?
  
- 3) Devin is building two shelves for his father. He has a piece of lumber that is 12 feet long. He wants the top shelf to be 6 inches shorter than the bottom shelf. How long are the two shelves?
  
- 4) The sum of two numbers is 90. The larger number is 14 more than 3 times the smaller number. Find the numbers.
  
- 5) Calvin mixes candy that sells for \$2.00 per pound with candy that costs \$3.60 per pound to make 50 pounds of candy selling for \$2.16 per pound. How many pounds of each kind of candy did he use in the mix?
  
- 6) The state fair is a popular destination. The senior class at two separate high schools took fieldtrip's to the same fair. High school A took a total of 240 students in 8 vans and 8 busses. High school B took a total of 54 students in 4 vans and 1 bus that held a total of 54.
  
- 7) A canoe traveling up stream travels 4 miles in 1.5 hours. On its way back down stream it travels the 4 miles in 1 hour. Find the rate of speed of the canoe in still water.
  
- 8) A coal barge on the Ohio River travels 24 miles upstream in 3 hours. The return trip takes only 2 hours. Find the rate of change on the barge in still water.