Systems of Equations – Word Problems

1. Find the value of two numbers if their sum is 12 and their difference is 4.

8, 4

1. The school that Stefan goes to is selling tickets to a choral performance. On the first day of ticket sales the school sold 3 senior citizen tickets and 1 child ticket for a total of $38. The school took in $52 on the second day by selling 3 senior citizen tickets and 2 child tickets. Find the price of a senior citizen

ticket and the price of a child ticket.

Senior citizen $8; child $ $14

1. Matt and Ming are selling fruit for a school fundraiser. Customers can buy small boxes of oranges and large boxes of oranges. Matt sold 3 small boxes of oranges and 14 large boxes of oranges for a total of $203. Ming sold 11 small boxes of oranges and 11 large boxes of oranges for a total of $220. Find the

cost each of one small box of oranges and one large box of oranges.

Small $7; Large $13

1. The senior classes at Rockdale and Heritage planned separate trips to New York City. The senior class at Rockdale rented and filled 1 van and 6 buses with 372 students. Heritage rented and filled 4 vans and 12 buses with 780 students. Each van and each bus carried the same number of students. How many students can a van carry? How many students can a bus carry?

Van 18, Bus 59

1. The difference of two numbers is 3. Their sum is 13. Find the numbers.

8, 5