College Math   Name_____ ID: 1

Systems of Equations Word Problems

Date_____ Period____

1) The school that Aliyah goes to is selling tickets to a play. On the first day of ticket sales the school sold 7 senior citizen tickets and 4 student tickets for a total of $139. The school took in $122 on the second day by selling 2 senior citizen tickets and 8 student tickets. What is the price each of one senior citizen ticket and one student ticket?

2) The state fair is a popular field trip destination. This year the senior class at High School A and the senior class at High School B both planned trips there. The senior class at High School A rented and filled 4 vans and 5 buses with 211 students. High School B rented and filled 8 vans and 2 buses with 142 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus.

3) Krystal's school is selling tickets to the annual dance competition. On the first day of ticket sales the school sold 8 adult tickets and 1 student ticket for a total of $36. The school took in $28 on the second day by selling 3 adult tickets and 4 student tickets. Find the price of an adult ticket and the price of a student ticket.

4) Brenda and Bill are selling flower bulbs for a school fundraiser. Customers can buy bags of windflower bulbs and packages of crocus bulbs. Brenda sold 4 bags of windflower bulbs and 3 packages of crocus bulbs for a total of $31. Bill sold 8 bags of windflower bulbs and 8 packages of crocus bulbs for a total of $72. What is the cost each of one bag of windflower bulbs and one package of crocus bulbs?

5) Alberto and DeShawn are selling cheesecakes for a school fundraiser. Customers can buy French silk cheesecakes and apple cheesecakes. Alberto sold 4 French silk cheesecakes and 3 apple cheesecakes for a total of $78. DeShawn sold 2 French silk cheesecakes and 2 apple cheesecakes for a total of $46. Find the cost each of one French silk cheesecake and one apple cheesecake.

6) The senior classes at High School A and High School B planned separate trips to the state fair. The senior class at High School A rented and filled 6 vans and 4 buses with 156 students. High School B rented and filled 5 vans and 8 buses with 270 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus.