Algebra 1 Name_____

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5.3B Application to Systems

1) The school that Julio goes to is selling tickets to a spring musical. On the first day of ticket sales the school sold 11 adult tickets and 1 child ticket for a total of $83. The school took in $31 on the second day by selling 1 adult ticket and 4 child tickets. What is the price each of one adult ticket and one child ticket?

2) The water park 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 1 van and 8 buses with 185 students. High School B rented and filled 7 vans and 11 buses with 350 students. Every van had the same number of students in it as did the buses. Find the number of students in each van and in each bus.

3) The school that Elisa goes to is selling tickets to the annual dance competition. On the first day of ticket sales the school sold 14 adult tickets and 6 student tickets for a total of $210. The school took in $240 on the second day by selling 8 adult tickets and 12 student tickets. Find the price of an adult ticket and the price of a student ticket.

4) A unit test consists of multiple choice and free response questions. The multiple choice are worth 3 points and free response are worth 4 points. If there are a total of 90 points on the test and 25 total questions, how many of each question are on the test?

5) A jar contains 25 coins consisting of quarters and dimes for a total of $4.15. How many of each are in the jar?

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