

Elimination - Part 2

- 1) Seven times a number plus three times another number equals negative one. The sum of the two numbers is negative three. What are the numbers?

- 2) Danielle and Mark each improved their yards by planting rose bushes and geraniums. They bought their supplies from the same store. Danielle spent \$118 on 6 rose bushes and 10 geraniums. Mark spent \$85 on 5 rose bushes and 7 geraniums. Find the cost of one rose bush and the cost of one geranium.

- 3) A boat traveled 256 miles downstream and back. The trip downstream took 8 hours. The trip back took 16 hours. What is the speed of the boat in still water? What is the speed of the current?

- 4) 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 8 vans and 3 buses with 212 students. High School B rented and filled 5 vans and 3 buses with 182 students. Every van had the same number of students in it as did the buses. How many students can a van carry? How many students can a bus carry?

- 5) Find the value of two numbers if their sum is 23 and their difference is 7.

- 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 3 vans and 11 buses with 637 students. High School B rented and filled 10 vans and 2 buses with 286 students. Every van had the same number of students in it as did the buses. How many students rode in each van?

- 7) The school that Eugene goes to is selling tickets to the annual dance competition. On the first day of ticket sales the school sold 1 adult ticket and 1 child ticket for a total of \$26. The school took in \$54 on the second day by selling 3 adult tickets and 1 child ticket. What is the price of an adult ticket?

- 8) A plane traveled 864 miles to Bangkok and back. The trip there was with the wind. It took 6 hours. The trip back was into the wind. The trip back took 9 hours. What is the speed of the plane in still air?

- 9) Five times a number minus twice another number equals twenty-two. The sum of the numbers is three. Find the numbers.