1.   The admission fee at a small fair is $1.50 for children and $4.00 for adults. On a certain day, 2200 people enter the fair and $5050 is collected. How many children and how many adults attended? a = number of adults; c = number of children

total number in attendance: a + c = 2200

total income: 4a + 1.5c = 5050

2.   Two groups of volunteers are cleaning up the football stadium after the Homecoming game. Volunteers from the Band Booster Club have already cleaned 6 rows of bleachers and will continue to clean at a rate of 6 rows per minute. The leadership class has completed 8 rows and will continue working at 5 rows per minute. Once the two groups get to the point where they have cleaned the same number of rows, they will take a break and decide how to split up the remaining work. How many minutes will each group have cleaned by then? How long will that take?

3.   Jacob and Jill each improved their yards by planting daylilies and geraniums. They bought their supplies from the same store. Jacob spent $37 on 2 daylilies and 3 geraniums. Jill spent $42 on 3 daylilies and 3 geraniums. What is the cost of one daylily and the cost of one geranium?

4. The senior classes at High School A and High School B planned separate trips to the local amusement park. The senior class at High School A rented and filled 2 vans and 6 buses with 266 students. High School B rented and filled 5 vans and 7 buses with 353 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus.

5. Gym A has an initial joining fee of $200 and a monthly membership fee of $20. Gym B has an initial membership fee of $150 and a monthly membership fee of $30. When will the costs be equal and at what price?

6. The volleyball team and the wrestling team at Summerfield High School are having a joint car wash today, and they are splitting the revenues. The volleyball team gets $4 per car. In addition, they have already brought in $67 from past fundraisers. The wrestling team has raised $94 in the past, and they are making $1 per car today. After washing a certain number of cars together, each team will have raised the same amount in total. How many cars will that take? What will that total be?