NJCU Math 205 Summer 2010 Homework #7

- 1. Tierra and Joey shared some stamps in the ratio 7:5. Tierra gave Joey 12 stamps. If each of them had the same number of stamps in the end, how many stamps did Tierra have in the beginning?
- 2. The ratio of Victoria's weight to Kazuki's weight was 4:5. If Victoria's weight increased BY 5 lb. and Kazuki's weight decreased by 1 lb., Victoria would have the same weight as Kasuki. What was Victoria's original weight?
- 3. Last year, the ratio of the number of boys to the number of girls in the computer club was was 1:2. This year, 70 new members joined the computer club. There are now 4 times as many boys and 3 times as many girls as last year. How many members were in the computer club last year?
- 4. There were 85 erasers in Box A and 15 erasers in Box B. When an equal number of erasers was added to each box, the number of erasers in Box A was 3 times as many as that in Box B. How many erasers were added to each box.
- 5. A square plot of land has an area of 196 square meters, while a rectangular plot of land with a length of 12 m has an area of 96 square meters. What is the ratio of the length of the square plot of land to the width of the rectangular plot of land?
- 6. Andrew had \$93. With this money, he could buy 3 CDs and 4 books. However, he bought only 2 CDs and 3 books and had \$27 left. What was the cost of each CD?
- 7. The ratio of Carlos's money to Ava's money to Zach's money is 4:5:9. If Zach has \$168 more than Ava,
 - a. How much money does Ava have?
 - b. How much money will Zack have left if he spends $\frac{1}{3}$ of it?
- 8. For every watch that Sarah sells, she earns \$4. She gets an additional bonus of \$50 for every 25 watches she sells. Last month, Sarah received a total of \$506. How many watches did she sell last month?
- 9. Jamila and Akiko had the same amount of money to spend. After Jamila spent \$33 and Akiko spent \$42, Jamila had 4 times as much money left as Akiko. How much money did each of them have in the beginning?
- 10. Lily and Mackenzie collected some stamps. If Lily gave 4 stamps to Mackenzie, and Mackenzie would have twice as many stamps as Lily. If Mackenzie gave 4 stamps to Lily, they would have the same number of stamps. How many stamps did each girl have?