**Ratio homework problems**. Draw and label an appropriate bar diagram, and find the solutions.

1. A pole 135 cm long, is painted red, white, and blue in the ratio 3:4:2. What length of the pole is painted white?

2. A bottle contains blue beads and red beads. The number of red beads is 4 times the number of blue beads. If there are 3568 red beads, how many more red beads than blue beads are there?

3. 2/5 of the children in a club are girls

a. If there are 24 boys, how many children are there altogether?

b. How many more boys than girls are there?

4. Mrs. Johnson mixed meat with potatoes in the ratio of 5:3 to make 4 kg of meat loaf. How much meat did she use?

5. The ratio of the number of John's stamps to the number of Peter's stamps is 5:8. Peter has 18 more stamps than John. If Peter gives 22 stamps to John, what will be the new ratio of the number of John's stamps to Peter's?

6. The ratio of men to the number of women in a factory is 3:8. There are 120 more women than men. If the number of men increases by 3 and the number of women decreases by 12, what will be the new ratio of the number of men to the number of women?

7. Peter spent 1/3 of his money on a toy car and 2/3 of the remainder on a toy boat. He had $6 left. How much money did he spend altogether?

8. Mary had some cookies. She gave 2/9 of them to Matthew and ate 1/3 of them. She had 8 cookies left. How many did she have at first?

9. Alice has 50% of the amount of money Betty has, and Carrie has 2/5 of what Alice has. If Betty has $364 more than Carrie, how much money does Alice have?