More bar diagram examples:

1. A tank is 3/5 full with water. If 30 liters more water are needed
to fill the tank completely, find the capacity of the tank.

2. 30% of the beads in a jar are red. The rest are blue. If there are
500 more blue beads than red, how many beads are there
altogether?

3. The ratio of Zoe's money to Yolanda's is 3:7. Yolanda has $64
more than Zoe. If Yolanda gives 1/4 of her money to Zoe, what
will be the new ratio of Zoe's money to Yolanda's

4. Cathy spent 4/5 of her money while Josie spent 1/2 of her money.
Both of them had the same amount of money left. If Josie had $35
left, how much did Cathy have at first?

5. Abe, Barry, and Carlos have 256 marbles altogether. The ratio of
Abe's marbles to Barry's marbles is 4:3. Barry has 14 more
marbles than Carlos.   How many marbles does Abe have?

Bar diagram homework practice.   name:_____

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. 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?

3. 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?

4. 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?

5. 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?

6. 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?