1) A store had 888 sodas, both diet and regular. The ratio of diet sodas to regular sodas was 8:4. How many diet sodas were there?

2) In August, Emily's Clothing Store sold 460 shirts with the ratio of short sleeve to long sleeve being 3:7. How many short sleeve shirts were sold?

3) A cable company had 595 subscribers. The ratio of regular subscribers to premium subscribers was 8:9. How many regular subscribers did they have?

4) John was looking at his streaming music stats. The ratio of songs he liked to disliked was 5:2. If he listened to 91 songs total how many did he like?

5) At the fair the ratio of male to females was 4:5. If there are 180 people at the fair how many males are there?
Solve each problem using a tape diagram.

1) A store had 888 sodas, both diet and regular. The ratio of diet sodas to regular sodas was 8:4. How many diet sodas were there?
   - diet
   - regular

2) In August, Emily's Clothing Store sold 460 shirts with the ratio of short sleeve to long sleeve being 3:7. How many short sleeve shirts were sold?
   - short
   - long

3) A cable company had 595 subscribers. The ratio of regular subscribers to premium subscribers was 8:9. How many regular subscribers did they have?
   - regular
   - premium

4) John was looking at his streaming music stats. The ratio of songs he liked to disliked was 5:2. If he listened to 91 songs total how many did he like?
   - like
   - dislike

5) At the fair the ratio of male to females was 4:5. If there are 180 people at the fair how many males are there?
   - male
   - female

Answers

1. 592
2. 138
3. 280
4. 65
5. 80