Sharing With Tape Diagram

Name: _____

Solve each problem using a tape diagram.

1) Roger had 2 display cases of collectibles. He wanted to organize them so each case had the same number of collectibles. One case had 87 collectibles and the other had 39. How many should he move so that each case has the same amount?

2) There are 94 sodas on the top shelf and 48 sodas on the bottom shelf. How many sodas should be moved from the top shelf to the bottom shelf so that each shelf has the same amount?

3) Vanessa and her friend had two piles of candy. Vanessa's pile had 33 pieces and her friend had 77 pieces. How many pieces would her friend have to give Vanessa so that they both had the same amount?

4) During gym class Team 1 had 66 students and Team 2 had 26 students. How many students should be moved from Team 1 to Team 2 so that you have even teams?

5) A store had 2 employees scheduled for the week. Haley was scheduled to work for 43 hours and George was scheduled for 91 hours. How fewer hours should George work so that he and Haley work the same number of hours?

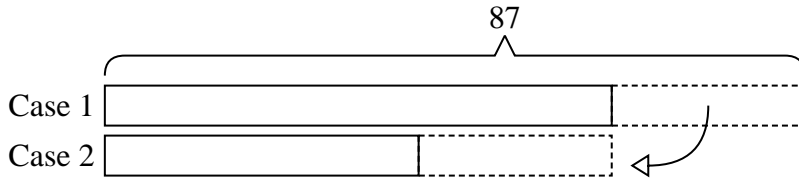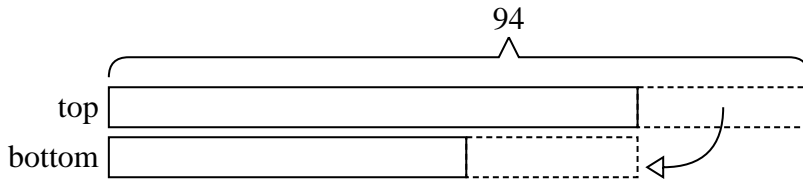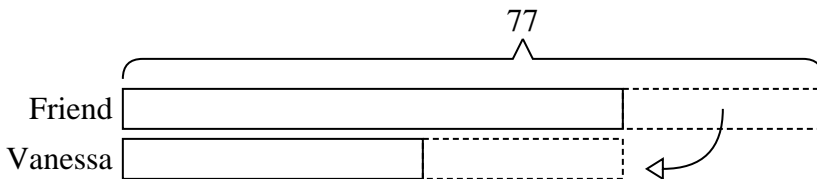**Solve each problem using a tape diagram.**

1) Roger had 2 display cases of collectibles. He wanted to organize them so each case had the same number of collectibles. One case had 87 collectibles and the other had 39. How many should he move so that each case has the same amount?

1. **24**

87

Case 1

Case 2

2) There are 94 sodas on the top shelf and 48 sodas on the bottom shelf. How many sodas should be moved from the top shelf to the bottom shelf so that each shelf has the same amount?
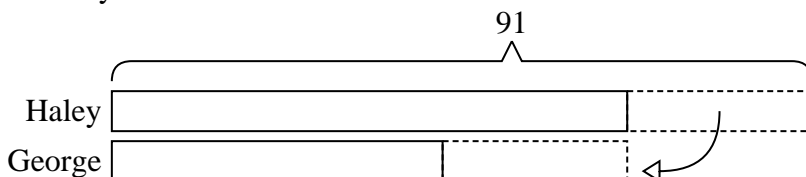
2. **23**

3. **22**

94

top

bottom

4. **20**

5. **24**

3) Vanessa and her friend had two piles of candy. Vanessa's pile had 33 pieces and her friend had 77 pieces. How many pieces would her friend have to give Vanessa so that they both had the same amount?

77

Friend

Vanessa

4) During gym class Team 1 had 66 students and Team 2 had 26 students. How many students should be moved from Team 1 to Team 2 so that you have even teams?

66

Team 1

Team 2

5) A store had 2 employees scheduled for the week. Haley was scheduled to work for 43 hours and George was scheduled for 91 hours. How fewer hours should George work so that he and Haley work the same number of hours?

91

Haley

George