Sharing With Tape Diagram

Name: _____

Solve each problem using a tape diagram.

Answers

Ex) A store had 2 employees scheduled for the week. Emily was scheduled to work for 38 hours and Cody was scheduled for 78 hours. How fewer hours should Cody work so that he and Emily work the same number of hours?

Ex. _____**20**_____

78

Emily

Cody

1. _____

1) In high school 92 students signed up for the morning art class and 34 signed up for the afternoon class. How many students should be moved from the morning to afternoon so that each class has the same number of students?

2. _____

3. _____

4. _____

5. _____

2) Janet and her friend had two piles of candy. Janet's pile had 47 pieces and her friend had 77 pieces. How many pieces would her friend have to give Janet so that they both had the same amount?

3) A car salesman had 82 cars in one of his lots and 46 in another lot. He decided to move some cars from Lot 1 into Lot 2 so that Lot 2 looked fuller. How many cars should he move so that each lot has the same amount?
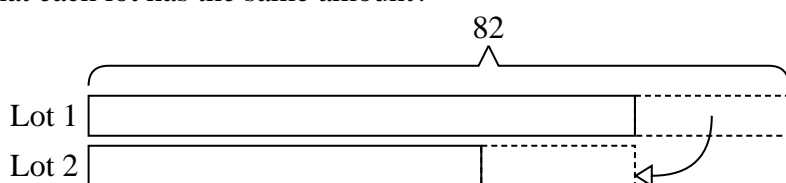
4) During gym class Team 1 had 82 students and Team 2 had 42 students. How many students should be moved from Team 1 to Team 2 so that you have even teams?

5) Tom had 2 display cases of collectibles. He wanted to organize them so each case had the same number of collectibles. One case had 79 collectibles and the other had 31. How many should he move so that each case has the same amount?

Math

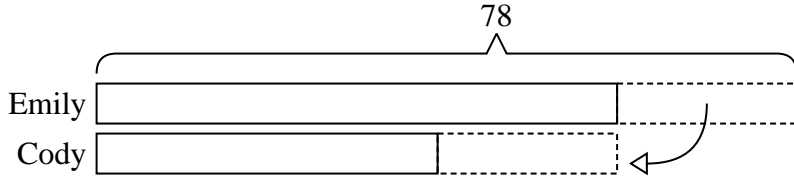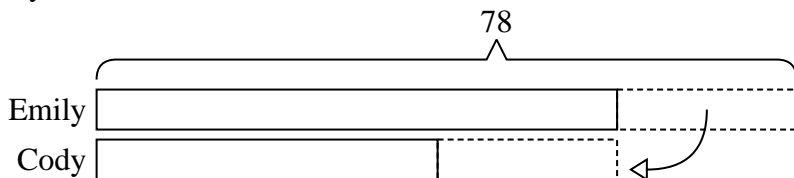www.CommonCoreSheets.com
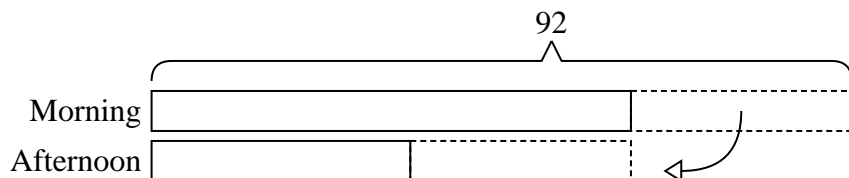
1-5 | 80 | 60 | 40 | 20 | 0
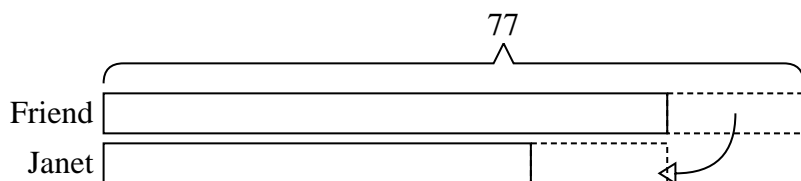
Solve each problem using a tape diagram.

Ex) A store had 2 employees scheduled for the week. Emily was scheduled to work for 38 hours and Cody was scheduled for 78 hours. How fewer hours should Cody work so that he and Emily work the same number of hours?

Ex. <u>   **20**   </u>

```
                    78
           ┌─────────^─────────┐
Emily  │              │ - - - - ┐
       └──────────────┘         ┊
Cody   │         │ - - - - - - -┊
       └─────────┘        ↙
```

1. <u>   **29**   </u>

1) In high school 92 students signed up for the morning art class and 34 signed up for the afternoon class. How many students should be moved from the morning to afternoon so that each class has the same number of students?
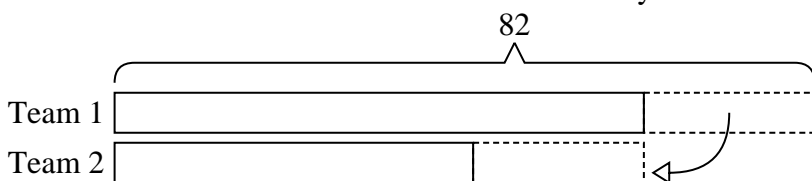
2. <u>   **15**   </u>

```
                    92
           ┌─────────^─────────┐
Morning  │              │- - - -┐
         └──────────────┘       ┊
Afternoon│      │ - - - - - - - ┊
         └──────┘          ↙
```

3. <u>   **18**   </u>

2) Janet and her friend had two piles of candy. Janet's pile had 47 pieces and her friend had 77 pieces. How many pieces would her friend have to give Janet so that they both had the same amount?
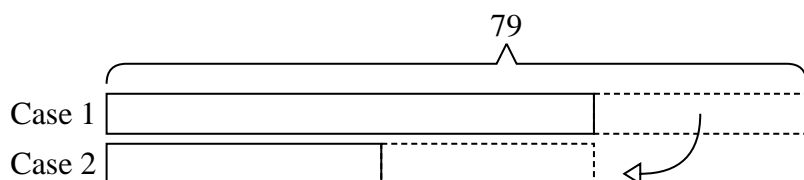
4. <u>   **20**   </u>

```
                    77
           ┌─────────^─────────┐
Friend  │                │- - -┐
        └────────────────┘     ┊
Janet   │            │- - - - -┊
        └────────────┘     ↙
```

5. <u>   **24**   </u>

3) A car salesman had 82 cars in one of his lots and 46 in another lot. He decided to move some cars from Lot 1 into Lot 2 so that Lot 2 looked fuller. How many cars should he move so that each lot has the same amount?

```
                    82
           ┌─────────^─────────┐
Lot 1   │              │- - - -┐
        └──────────────┘       ┊
Lot 2   │         │ - - - - - -┊
        └─────────┘        ↙
```

4) During gym class Team 1 had 82 students and Team 2 had 42 students. How many students should be moved from Team 1 to Team 2 so that you have even teams?

```
                    82
           ┌─────────^─────────┐
Team 1  │              │- - - -┐
        └──────────────┘       ┊
Team 2  │         │ - - - - - -┊
        └─────────┘        ↙
```

5) Tom had 2 display cases of collectibles. He wanted to organize them so each case had the same number of collectibles. One case had 79 collectibles and the other had 31. How many should he move so that each case has the same amount?

```
                    79
           ┌─────────^─────────┐
Case 1  │              │- - - -┐
        └──────────────┘       ┊
Case 2  │       │ - - - - - - -┊
        └───────┘        ↙
```