

1. Bob and Carol wish to divide the assets from their parents farm estate equally. Carol still lives in a rural area, but Bob lives in the city. They have some sentimental attachment to some of these assets and value them differently. Here is the list an how they distribute 100 points between the items. Use the adjusted winner procedure to allocate the items and determine how many points worth of inheritance they each get. How would you suggest splitting the one item that needs to be divided? Would this change its value to Bob and Carol?

	Bob	Carol
12 ft row boat	8	15
china set	10	8
piano	20	10
computer	15	5
rifle	5	1
box of tools	5	5
tractor	7	24
old pickup truck	10	20
moped	20	12

2. For this problem work with a partner. You and your partner have just won a collection of seven prizes, but the offer is conditional on you agreeing on a fair division of the prizes between you. Once the prizes are assigned they are not transferable. Read the list to yourself and decide what these prizes are worth to you and distribute points to each item in such a way that the total is 100. Do not reveal to your partner how you are assigning points until she or he has also done so. Now complete the adjusted winner procedure to find out the fair division (you may want to check the values of your partner add to 100 first!). How many points to you each get? What item do you have to divide? How do you divide it?

- Seasons tickets to the Mariner's
- Free transportation home for spring break
- Free expert individualized math tutoring for the rest of the quarter
- Unlimited gas for one year
- An ipod touch
- Free full body massage
- \$100 lunch pass at the CAB for next year