

The Method of Markers:

- players do not put any of their own money.
- many more items than players
- items close in value

Bidding:

place markers in array to make bids.

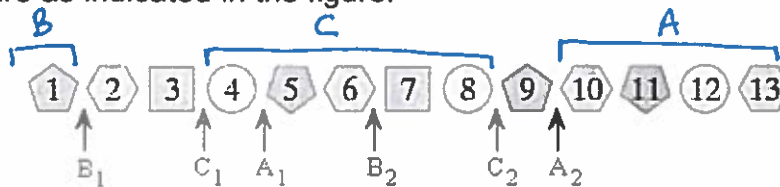
Allocation:

L to R: First marker gets first allocation, etc.

Division of the Surplus:

draw lots to divide surplus one at a time.

Three players (A, B, and C) are dividing the array of 13 items using the method of markers. The player's bids are as indicated in the figure.



1. Which items go to A?

10-13

2. Which items go to B?

1

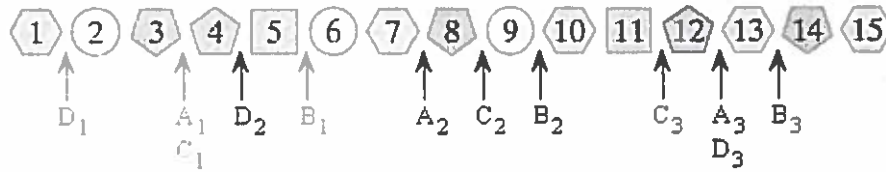
3. Which items go to C?

4-8

4. Which items are leftover?

2, 3, 9

Four players (A, B, C, and D) are dividing the array of 15 items using the method of markers. The player's bids are as indicated in the figure.



5. Which items go to A?

4-7

6. Which items go to B?

14-15

7. Which items go to C?

9-11

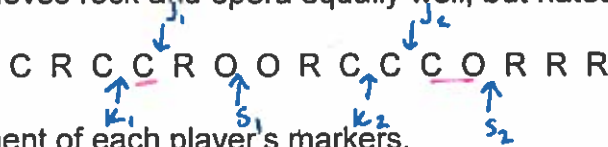
8. Which items go to D?

1

9. Which items are leftover?

2, 3, 8, 12, 13

Katie, Jessica, and Sophie are dividing a set of 15 CDs – 6 country, 6 rock, and 3 opera. Katie loves country, but hates rock and opera. Jessica loves rock and country equally well, but hates opera. Sophie loves rock and opera equally well, but hates country. The CDs are lined up in an array.



10. Describe the placement of each player's markers.

K - 2 C in each bid

J - 4 R/C in each bid

S - 3 O/R in each bid

11. Describe the allocation of CDs to each player and describe what CDs are left over.

Katie - 2C, 1R (bid #1)

Jessica - 2R, 2O, 2C (bid #2)

Sophie - 3R (bid #3)

left over: 2C, 1O

12. Suppose that the players agree that each one gets to pick an extra CD from the leftover CDs. Suppose that Katie picks first, Jessica picks second, and Sophie picks third. Describe which leftover CDs each one would pick.

K - 1C

J - 1C

S - 1O