

All values represent multiples of \$1,000.

	Alice	Bob	Charlie
Duesenberg	18	15	15
Bentley	18	24	20
Ferrari	16	12	16.5
Pierce-Arrow	14	15	13.5
Cord	24	18	22

Alice pays $\frac{2}{3}(18) + \frac{2}{3}(24) = 12 + 16 = 28$ to the kitty
Duesenberg Cord

Bob pays $\frac{2}{3}(24) + \frac{2}{3}(15) = 26$ to the kitty
Bentley P-A

Charlie pays $\frac{2}{3}(16.5) = 11$ to the kitty.
Ferrari

Kitty now has $28 + 26 + 11 = 65$

Each person now takes $\frac{1}{3}$ of each losing bid from the kitty,

Alice takes $\frac{1}{3}(18) + \frac{1}{3}(16) + \frac{1}{3}(14) = 16$
Bentley Ferrari P-A

Bob takes $\frac{1}{3}(15) + \frac{1}{3}(12) + \frac{1}{3}(18) = 15$
D. F. C.

Charlie takes $\frac{1}{3}(15) + \frac{1}{3}(20) + \frac{1}{3}(13.5) + \frac{1}{3}(22) = 23.5$
D B P-A C

The kitty now has $65 - 16 - 15 - 23.5 = 10.5$

Each person takes an equal share from the kitty,

so Alice, Bob, and Charlie, each get 3.5.

In total, Alice pays 28 and receives 16 + 3.5, so she owes \$8,500

Bob pays 26 and takes back 15 + 3.5, so he owes \$7,500

Charlie pays 11 and takes back ~~23.5~~ 23.5 + 3.5, so he is paid \$16,000

The final allocation is:

Alice gets the Duesenberg & Cord, and pays Charlie \$8,500
 Bob gets the Bentley & Pierce-Arrow, and pays Charlie \$7,500
 Charlie gets the Ferrari and \$16,000.

* Note that the sum of the money owed at the end should be equal to the sum of the money received at the end

~~Final allocation~~