Disco drinks

Dancing is thirsty work so your next school disco will need a drinks stall.

Imagine that the stall will sell the drinks listed.

Ann and her four friends each have £1.50 each to spend.

Drinks menu

- 150 ml cartons of bubble gum favoured drink (14p each)
- 200 ml bottles of cherry aid (16p each)
- 330 ml cans of lemonade (53p each)
- 500 ml bottles of cola (57p each)
- 200 ml bottles of limeade (23p each)
- 200 ml cartons of orange juice (27p each)
- 200 ml cans of rainbow disco drink (43p each)

Things to think about:

- Is there more than one possible solution for each challenge?
- Does it matter if the cost of the drinks is odd or even?

Your challenge

Work out all the possibilities for:

1. **what Ann could buy if she spends all of her money on 4 drinks.**
2. **what combinations Luke could buy if he buys over 6 drinks, but spends all of his money.**
3. **what different combinations Harry could buy if he spends 10p on sweets and the rest on drinks. He doesn't like cola.**
4. **what Max could buy if he saved 30p to spend on sweets and buys only two different types of drink.**
5. **what combinations Aalya could buy if she ends the night with 7p left.**

Extra challenge

Can you create your own similar problems for a friend to solve?