

Firstly I needed to work out all the actual prices for all the items at Gary's Groceries:

Chocobiscuits= 94p- 50%= 47p  
Oven Chips= £1.60 - 25%= £1.20  
Crisps= £1.20 - 35% = 70p  
Lemonade= 55p - 20% = 44p  
Sausages= £1.85 - 40% = £1.11

Secondly I had to work out how much was saved on each item:

Chocobiscuits= 47p  
Oven Chips= 40p  
Crisps= 42p  
Lemonade= 11p  
Sausages= 74p

Then I had to find the cost of the shopping list at each store:

Gary's Groceries= 2 x 44p + 1 x 78p + 3 x 111p + 1 x 120p = 619p = £6.19

Fiona's Food's= 2 x 43p + 1 x 99p + 3 x 104p + 1 x 155p = 650p = £6.52

Paul's Provision's= 1 x 90p (using buy one get one free) + 1 x 159 + 2 x 204 (two bought at buy one get one free, the third bought at full price) + 1 x 249p = 906p = £9.06

Gary's Groceries would be the cheapest place to buy the whole shopping list, at £6.19, compared with £6.52 at Fiona's Foods and £9.06 at Peter's Provisions, but it would be even cheaper to shop around, buying lemonade and sausages at Fiona's Foods, crisps and chips at Gary's Groceries for a total of £5.96.

For the party, we found 8 ways of buying the food for under £10.70 by shopping around.

First we bought all the items in the cheapest places:  
lemonade=£1.72 at Fiona's

sausages=£4.08 at peter's  
chips=£2.40 at Gary's  
crisps=£1.56 at Peter's  
biscuits=84p at Fiona's  
Total-£10.60

Next we substituted items which were close in price to make different totals, still under £10.70.

Change lemonade to Gary's - new total £10.64

Change lemonade to Peter's - new total £10.68

Change chips to Peter's - new total -£10.69

Change crisps to Peter's - new total - £10.63

Change biscuits to Peter's - new total - £10.65

Change biscuits to Gary's - new total - £10.70

Change lemonade to Gary's and crisps to Peter's - new total - £10.67.