Drink Stall

Jenny, Mere, and Toline are running a drink stall at the beach to raise some money for their swimming club trip. Each girl uses a different method to make her drinks.

1. Jenny makes up some drink that is 1 part of cordial to 4 parts of water.

> A 1:4 ratio. That's five parts altogether.

   a. If she has a 10 litre container, how much cordial will she need?
   b. How much will she need for 15 litres?

2. Toline's drink sachets are too strong at 1 sachet per 1 litre of water, so she uses 4 sachets for 5 litres of drink. How many sachets would she use for:
   a. 10 litres? b. 15 litres? c. 25 litres?

3. Jenny's cordial costs $3.50 for a 2 litre bottle (this makes 10 litres), and Toline's drink sachets are 50 cents each. What is the cheapest way to make up 20 litres?

4. Mere makes home-made lemonade using lemons from the tree in her garden. She uses 10 lemons and 2 cups of sugar for every 2 litres of drink.
   a. How much drink can she make with:
      i. 15 lemons? ii. 45 lemons?
   b. How many cups of sugar will she need for:
      i. 30 lemons? ii. $7\frac{1}{2}$ lemons?
   c. How many lemons and cups of sugar would she need to make 10 litres?

5. The girls can fill 6 paper cups from 1 litre of drink.
   a. How many cups can they fill from 10 litres?
   b. How many litres of drink will they need to fill 180 paper cups?

6. They sell all their drinks and make $80.
   Jenny brought all the paper cups from home and made all the signs. They decide to split the money so that Jenny gets $2 for every dollar that Mere and Toline get.
   How much of the $80 does each girl get?