A paper with text and a list of fruits

AI-generated content may be incorrect.

## Calculate step by step

**How many fruits of every kind each child will receive**

To calculate how many fruits each child will receive we just use integer division since the fruits cannot be cut. As long as we treat the amount of children and amount of each fruit as integers it should be equally distributed between the children (rounded down)

We divide each amount of fruit with the amount of children to distribute equally

**How many apples, pears and bananas employees buys, and the total price specified for each type of fruit**

The employees can buy the leftovers after the distribution of fruit between the children

To calculate the leftover amount of each fruit we can use modulo (%) which divides the amounts and takes the remainder. We can do fruit modulo children to get the leftovers of that specific fruit

The total price specified for each fruit is just the price per fruit multiplied with the leftover amount of that fruit

**The total amount that the employees have used to buy all the fruit.**

The total amount that it cost to buy all leftover fruits is just the sum of each total amount per fruit (calculated previously)

## Step by step procedure

**To make these calculations in a code environment we will need the following variables:**

* A double for each fruit price (this can be an int, but the prices may in the future contain decimals)
* An integer for the amount of children
* An integer for each fruit amount  
    
  **Processed variables**
* An integer for each amount of fruit per child
* An integer for excess of each fruit after distribution
* A double for the total cost of all of each remaining fruit
* A double for the total cost of all remaining fruits

**The calculations will be formulated as such (fruit is just a placeholder here):**

fruitCountPerChild = fruitDelivered / childrenCount

remainingFruitCount = fruitDelivered & childrenCount

remainingFruitPrice = remainingFruitCount \* fruitPrice

totalPrice = remaingFruitPrice + …

**The info to print out will be:**

* The amount of children
* The amount of each fruit
* The amount of each fruit per child
* The remaining amount of each fruit
* The price of each fruit
* The price of all of each remaining fruit
* The total price of all remaining fruits

**Implementation:**

[Kindergarten.sln](file:///C:\Git\OOProg25\Chap\Prog01\MySolution\Kindergarten\Kindergarten\Kindergarten.sln)