**The Calculation Of Approximatety**

Sometimes we need calculate figures that consists of decimals which consists of ten to hundreds of figures. Although one could use a calculator, however, due to human errorness or not viable in some situation for example when you are loading containers to a truck. Is there any method to use a fastest or approximately way to calculate. Below discuss a way to do so:

Let’s take an example. A truck driver needs to load 25 cartoons to a truck of different weights, as we all know each truck has a maximun loading weight and sometimes for clearance purposes the truck driver needs to approxiately know how much all thoses cartoons weights and filled in the clearance form.

The 25 cartoons weights are shown below (in terms of Kg):

12.34

15.67

18.92

9.65

14.67

16.32

9.89

15.77

10.23

18.98

11.04

14.88

13.98

20.44

17.23

7.99

15.22

16.23

10.33

12.56

11.22

9.55

11.22

16.44

15.11

**Total**: 345.88 Kg

One could use a calculator, but as said due to human errorness if the number of digits increases the chance of calculation error also increases. The best way to handle the decimal points is by rounding off to the nearest. By looking at the decimal points we can divide it into 2 parts, one is below 0.5 and the other part is over 0.5 and below 1. Lets take an example, for the first digits 12.34, 0.34 is below 0.5, as said before we need to rounding off, therefore we round off to the upper decimal that is 0.5. For the second 15.67, 0.67 is over 0.5 but below 1, therefore we round off to 1. Now lets count the total digits with decimal which are below 0.5, there are totally 13, then you need to multipy 13 x 0.5 which is 6.5, for the rest are 12 which is between 0.5 and 1, by multiplying 12 x 1, which is 12, and by adding it together 6.5 + 12, that is equals to 18.5. Now we have treated the decimal points. All we have to do is just add all the figures without the decimal point, which is 333. Then by adding 333 to 18.5, we know all the 25 cartoons are approximately weighting 351.5 Kg all together. There is just **5.62 Kg** differneces. One could even minimize the differences by visually looking at the decimal points, for the first part 0.5 we could figure out that average of the decimal point is average of 0.25, and for 0.5 and 1, we could figure out the average are near 1. Then could adjust it by, 13 x 0.25, which is 3.25 and (12 x 1), by adding it together , we could get 333 + 15.25 = 348.25, which gets the difference even closer **2.37 Kg**.