- 4. Dr. Mann mixed 9.357 g of chemical A, 12.082 g of chemical B, and 7.502 g of chemical C to make 5 doses of medicine.
 - a. About how much medicine did he make in grams? Estimate the amount of each chemical by rounding to the nearest tenth of a gram before finding the sum. Show all your thinking.

A 9.357g
$$\approx$$
 9.4g 19.4 Dr. Mann made B 12.082g \approx 12.1g 12.1 about 29 grams C 7.502g \approx 7.5g $+\frac{7.5}{29.0}$ of medicine

Dr. Mann made

b. Find the actual amount of medicine mixed by Dr. Mann. What is the difference between your estimate and the actual amount?

$$\begin{array}{r} 9.357 & 24.000 \\ 12.082 & -28.941 \\ +7.502 & 00.059 \end{array}$$

The difference in the estimated and actual amounts is 0.059g.

c. How many grams are in one dose of medicine? Explain your strategy for solving this problem.

I used the standard algorithm to find my answer.

There are 5.78829 of medicine in one dose.

d. Round the weight of one dose to the nearest gram.



Don't sorget, your place value chart place value di.

5.7882g ~ 6g