- 4. Dr. Mann mixed 9.357 g of chemical A, 12.182 g of chemical B, and 7.516 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  $9.357_{9} \approx 9.49$ B  $12.182_{9} \approx 12.29$ C  $7.516_{9} \approx 7.59$
- 9.4 12.2 + 7.5 29.1
- Dr. Mann made about 39.1 grams of medicine.
- b. Find the actual amount of medicine mixed by Dr. Mann. What is the difference between your estimate and the actual amount?
- 12.182 + 7.516 29.055

- 29.055 - 29.055 - 00.045
- The difference between the between the estimate & actual amount is 0.045 grams
- c. How many grams are in one dose of medicine? Explain your strategy for solving this problem.
  - 09.685 3109.055 -27.41 -28.54

I used the algo-

There are 9.685 grams in 1 dose of medicine.

- d. Round the weight of the dose to the nearest gram.
  - 9.685g ≈ 10g

