Decimal operations.

1. I think my addition videos showed how easy it is to stumble over place value language when dealing with decimals. Practice talking through each of these problems as you work it, then **make a video of you talking through the process of doing b or d**, using appropriate place value language. Include a place-value language description of how to line up the numbers when adding.:

a. 3.582 + 1.076

b. 23.5 + 4.96

c. 4.93 – 2.17

d. 14.3-2.87

2. Watch the array explanations of decimal multiplication, and show on these grids how to multiply the decimals given. Label or color code your array to show how it corresponds to a numerical solution by either the standard or the expanded algorithm.

a. 



b. 



3. Well, I did my best to come up with explanations of how to figure out where to put the decimal place for multiplication problems. If you read the textbook, you’ll find yet another explanation for it. Figure out what way of determining where the decimal goes makes the most sense to you. For each of the following problems, write out the product in whatever way you prefer to find it (you could use the standard algorithm, expanded algorithm, my alternate algorithm, or an algorithm you got from somewhere else). Write an explanation (in words) of how you decided what the place values were/where the decimal should go in each product. Your explanation should include the “why” not just the how, so if you are saying something like “move the decimal \_\_\_ places to the left/right”, you had better follow it up with a “because” that tells *why*, not just *how*.

a. 

b. 

4. Do the following two division problems. *Show* explicitly, and *explain* the step where you convert the given division problem into a problem where the divisor is a whole number. Round as indicated.

b.  (round to 2 decimal places)

c. (round to 2 significant digits)