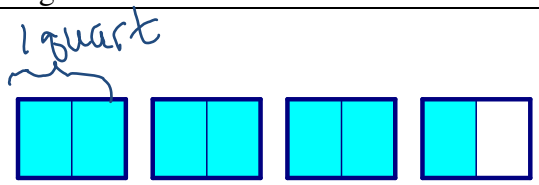
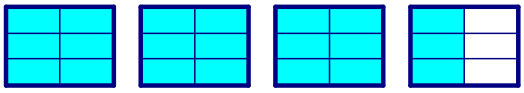
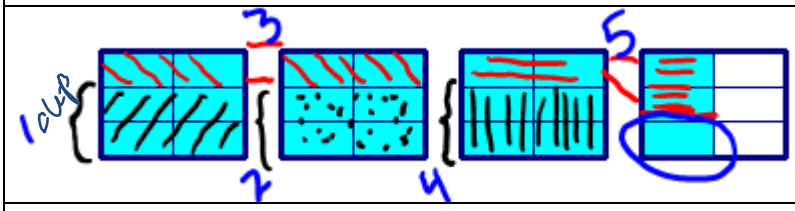
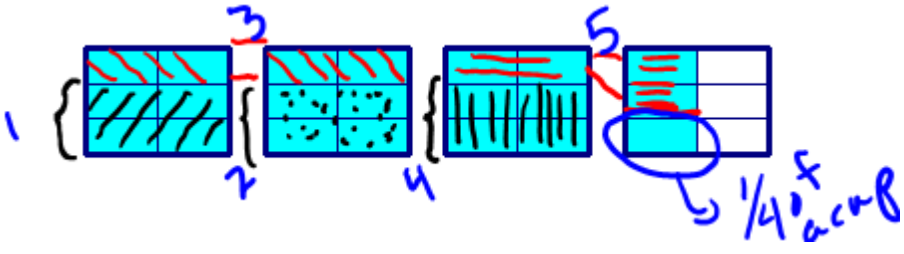
An example of drawing measurement division diagrams:

4 1/2 ÷ 2/3

Word problem: Kent has 3 1/2 quarts of water. If he puts 2/3 quart of water in each cup, how many cups can he fill?

How to make the diagram:

diagram	thought
	I need to show 3 1/2 quarts of water
	Next, I need to be able to show thirds on the same diagram. If My diagram were divided into sixths, it could show both thirds and halves
	Now I'll mark off sets of 2/3 of a quart. Each of those sets will be 4/6, and each will represent 1 cup.
	So, it fills 5 cups with a little bit left over. That little bit is 1 pieces (1/6 of a quart) and a whole cup is 4 pieces, so the little bit is 1 out of 4 pieces needed to make a full cup, so he can fill 5 1/4 cups

You don't have to show all of these steps, just the final one.