6.RP Sweet Tea

Task

a. If you have a cup of tea, will it be sweeter if you add one teaspoon of sugar or two?

b. If you have two identical cups of tea and add one teaspoon of sugar to each, they will taste the same.
   i. If you pour both cups into a larger container and mixed them thoroughly, will the result taste the same or different?
   ii. How many cups of tea are in the mixture? How many teaspoons of sugar are in the mixture?
   iii. If you mix two cups of tea with two teaspoons of sugar, will it taste the same or different as one cup of tea with one teaspoon of sugar?

c. A small pitcher contains 4 cups of tea and 2 teaspoons of sugar. A large pitcher contains 6 cups of tea and 4 teaspoons of sugar. Will the tea in the large pitcher be more, less, or have the same sweetness as the tea in the small pitcher? Explain and draw a picture to illustrate.