Sam Fry and Gracen Monet
February 13th 2020

Problem Solving Activity Assignment

Materials Needed:

- Pencils
- Paper
- Sets of cards labeled 1 through 5
- Yellow Tiles (enough for students or pairs to each have 13)
- Green Tiles (enough for students or pairs to each have 11)
- Orange Tiles (enough for students or pairs to each have 17)

Problem:

Taylor owns a fruit farm where they grow lemons, limes and oranges. Their trees produced 13 lemons, 11 limes and 17 oranges this past week and they want to make fruit baskets for each of their 5 neighbours. How much of each kind of fruit would be in the baskets if each kind is divided evenly between their neighbours? How much fruit would be left over?

Implementation:

Class let us work through our word problem we have at hand. As you can see we have five neighbours which means we need to create 5 equal gift baskets. There are many different ways to sort the fruits into each basket, try whatever way makes the most sense for you. We could draw out the problem, use manipulatives from the classroom, count in groups of five or use a guess and check method. Whatever helps you understand how many fruits go in each basket is the best way for you! If you need any help with the problem or finding different ways to try it out let me know.

Solution 1: Using Manipulatives

There are 5 neighbours so there will be 5 baskets to fill, I can show this using the numbered cards. I will sort out each fruit using the manipulatives into five groups until I cannot make the baskets equal with the amount of fruit I have left.

Solution 2: Groups of Five

I will write out the number of each fruit in a line, then group it into groups of five. Whatever is leftover Taylor gets to keep and the groups go to the neighbours.