Concepts – Decimals to Hundredths

Teacher Notes:

Decimals (Hundredths)

- Each student will need a flat, about 10 rods, and about 20-30 units.
- Explain to the students the flat represents one whole, the rod represents 1/10 and the unit is 1/100.
- Have the students place 0.01 on their flat. Ask how they know this is 0.01. (It covers 1 out of 100 spaces) Illustrate how to write 0.01
- Have them place 0.2 on their flat and ask the same question as above. Illustrate how to write 0.2.
- Continue with other decimals 0 .13, 0.25, 0.06, 0.41, and so on. Have the students explain the meaning and how to write the decimal.

- To practice ordering and comparing decimals give the students two decimals, such as 0.03 and 0.3. Each pair of students will make one of the decimals on his/her flat. They will then write the comparison   0.03 < 0.3
- Have the students in groups of three to four, and give as many decimals to place on their flat. The students write these in order from least to greatest.

- To practice addition, give the students two decimals to place on the flat. For example, ask the students to place 0.3 on their flat. Then add to that 0.11. What decimal is represented by adding those numbers. Write on the board this sum, but don't mention lining up decimals. Give enough examples that they will begin to "see" this rule. After you have completed a number of these, ask if they notice anything about the way you wrote the problems. Have them explain to you.

- For subtraction, ask the students to place 0.23 on the flat and then take-away 0.1. Again, give the students enough examples to work with in order that they begin to "see the rule" of lining up decimals.