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EDUC 315

Task Analysis—Grouping

- A. Background information need to know:
 - a. Basic counting skills
 - b. Basic addition/multiplication skills
 - c. Math vocabulary (grouping, sets, odd/even)
 - d. Place values
 - e. Legible handwriting
 - f. Problem solving skills
 - g. Know that not all students will have the same solution/way of grouping objects
- B. Introduction (Remind students of the background information by doing an example)
 - a. Remind the students the following:
 - i. Groups contain any number of objects.
 - ii. Sets are groups of objects with same number of objects in each group.
 - iii. Not everyone will have the same solution for grouping objects.
 - b. From yesterday, who can remember the different ways we grouped the 20 balls into sets to tell how many balls there were total?
 - c. Students should remember the following groupings:
 - i. 10 sets of 2
 - ii. 4 sets of 5
 - iii. 2 sets of 10
 - iv. 1 set of 20
 - d. Ask students why they grouped the balls the way they did.
 - i. Example—there was an even number of balls, so I grouped them by 2s.
- C. Decision making
 - a. Are there too many objects to be counted by ones?
 - i. If no, count the objects.
 - ii. If yes, continue to the next step.
- D. Begin grouping objects (50 popsicle sticks)
 - a. Determine what size of groups they want to make (i.e. 5).
 - b. Make groups of that size (5) until all the popsicle sticks are in a group.
 - c. Count how many groups there are (10).
 - d. Multiply the number of groups by the size of the groups (5 x 10).
 - i. Remind students of basic multiplication skills, which include:
 - 1. Using legible handwriting
 - 2. Putting the bigger number on top while multiplying
 - 3. Lining up the numbers according to place values
 - a. i.e. 10

x 5

*note the five and the zero are both in the one's column

ii. The answer to their multiplication problem is the number of popsicle sticks.

E. Conclusion

- a. Ask students to share their groupings with the class
 - i. Have class determine if the groupings are accurate.
 1. i.e. 5 sets of 10
 2. i.e. 2 sets of 25
 3. i.e. 10 sets of 5