

## Number and Operations Ages 3-5

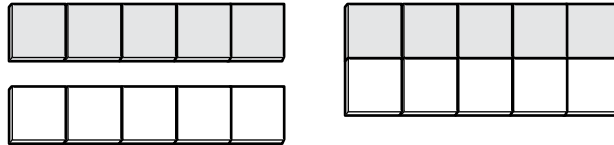
### Goals:

- Develop number sense for whole numbers through 30
- Share equally between two people; explain
- Solve problems and share solutions to problems in small groups

## Combining and Separating Sets

*Objective: Compare and order sets and numbers*

Using the small squares, count how many there are in all. Separate the small squares into two sets using color to sort the shapes. Count how many small squares are in each set. Count the number of squares there are in all again. Do you still have the same number of squares? For example, you have 10 small squares. Put all the yellow squares together and all the white squares together. After counting, you discover that there are 5 yellow squares and 5 white squares. Do you still have 10 squares? Count and see. Next, make several sets of small squares. Let's say for example, yellow, green, blue and white. How many squares are in each set? How many squares are there in all? Do you still have 10 squares? **Challenge the children to combine and separate the squares in a variety of ways.**



## How Many?

*Objective: Count objects in a set*

To explore the concept of sets, play a counting game. Number a series of index cards to the highest number that the children can recognize. Show a numbered index card and encourage the children to count out the number of tiles to correspond to the number. Once the set is determined, encourage the children to arrange the shapes to create a variety of designs. **Periodically count the shapes in the set.** Do you still have the same number as is shown on the card?

