

# **Cups of Counters: At Home**

**Division Practice** 

## From the Developing Number Concepts Series by Kathy Richardson

### Goals:

- Recognize the process of sharing and grouping (partitioning) as division
- See relationships between multiplication and division problems
- Solve division problems

## **Materials:**

- Objects to count: such as Legos, pennies, macaroni, pompoms
- Cups
- Numeral cards in a bag (11 30)
- Die or homemade spinner
- Paper

### **Procedures:**

- 1. The child draws a number from the bag and counts out that many objects.
- 2. The child then rolls the die or spins the spinner to determine how many cups to get.
- **3.** The child thinks about how many counters would go equally in each cup and how many leftovers there would be.

For example: This child drew the number 17 and counted 17 Legos. Then she landed on 3 and set out 3 cups. She found out each cup would hold 5 an there would be 2 leftovers.



## What to watch for:

- Does the child understand the answer is the number in each cup plus a remainder if there is one?
- How does the child share the counters? Does he put one at a time in each cup or does he put a group of objects in each cup and then adjust if there aren't enough or too many?
- Does he use multiplication to figure how out many should go in each cup? For example, "I have to make 3 groups. I know 3 groups of 4 would be 12 but I have 15. I'm going to try 5 and see what happens.

#### **Extensions:**

Use numbers to 10 on a spinner or put larger numbers in the bag.

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