

Assessment 4: Conservation of Number

Materials: 20 beans

Recording: Check yes or no

Suggested Questions and Procedures:

- Make two horizontal rows of objects (approximately 10). The counters in each row are placed in one-to-one correspondence.
"Are there the same number of beans in each row?"



© 1990 Center for Innovation in Education, Saratoga, CA

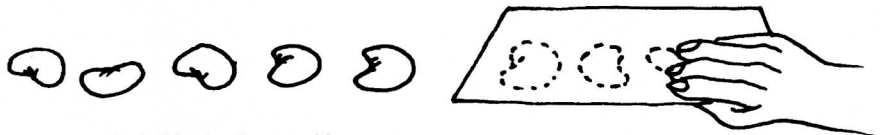
Assessment 5: Counting Backwards

Materials: 7-20 beans and a piece of paper or cardboard (to cover the beans)

Recording: Circle quantities completed correctly.

Suggested Questions and Procedures:

- Ask the child, "Place seven beans in a horizontal line on the table." If necessary, direct with your hand the horizontal position. (Child places seven beans on the table.)
- Confirm the total. "How many beans did you line up?"
- Cover one bean with a piece of paper or tagboard and say, "Now how many are there?" (Child responds without having to count the beans.)



© 1990 Center for Innovation in Education, Saratoga, CA

Assessment 6: Estimation of Quantities

Materials: 3 small identical jars of objects labeled A, B, C...

Recording: Record answer and explanation.

Suggested Questions and Procedures:

- "How many beans do you think are in jar A?"
- "If there are (*child's answer*) beans in jar A, then how many beans do you think are in jar B?"
- "If there are (*child's answer*) beans in jar B, then how many beans do you think are in jar C?"



Observations: How a child decides on an answer is the key to this assessment. Ask the child to explain why and/or how he or she found his or her answer.

