

**NIGHT 5**  
**NUMBER SENSE ACTIVITY 9**  
**Kentucky K-4 Mathematics Specialist Program**

- Title:** Three Bean Salad
- Source:** Stenmark, Jean K., Thompson, Virginia & Cossey, Ruth. Family Math. Berkeley, CA: Lawrence Hall of Science, 1986.
- Objective:** To form, compose, and decompose sets based on the part-part-whole concept.
- Materials:** Beans, multicubes, multilink cubes, or counters, and paper plates or cups to hold small portions of beans.
- Grouping:** Individual
- Preparation:** Write the recipes for salads on individual cards. Make an answer chart with the numbers 1 through 8 down the side, (corresponding to each recipe) and write Lima Beans, Red Beans, and Black-eyed Peas across the top. Provide each participant with at least 12 counters of three colors or types. Distribute recipe cards and answer charts to each participant.

**Instructions for Teachers:**

1. Instruct participants to make their salads and remind them that all three types of beans go into each salad.
2. For each salad have participants determine how many of each of the three types of beans are needed and record their answers on the chart.

**VARIATION:** Have participants make up their own recipes and challenge other students.

**RECIPES ON ACCOMPANYING WORKSHEET**

# THREE BEAN SALADS

*Each salad contains Red beans, Lima beans, and Black-eyed peas*

1

This salad contains:

2 Lima beans

Twice as many Red beans as  
Lima beans

10 beans in all,

2

This salad contains:

4 Red beans

1/2 as many Black-eyed peas as  
Red beans

10 beans in all

3

Lima beans make up 1/2 of this salad:

The salad has exactly 2 Red beans

The number of Lima beans is double  
the number of Red beans

4

This salad contains:

The same number of Red beans  
as Lima beans

3 more Black-eyes than Red beans

A total of 18 beans

5

This salad contains 12 beans

1/2 of the beans are Red

Lima beans make up 1/4 of the salad

6

This salad contains at least 12 beans

It has one more Lima bean than  
Red beans

It has one more Red bean than  
Black-eyes

7

This salad contains:

3 times as many Red beans as  
Black-eyes

One more Lima bean than Red beans  
8 beans in all

8

This salad contains:

An equal number of Red beans and  
Black-eyes

5 more Lima beans than Red beans

No more than 20 beans

Make up a different salad.

Write instructions for someone else to make your salad.