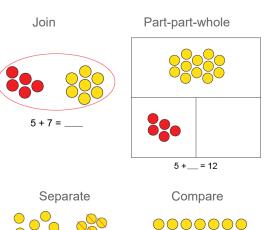
### **Activity 23 Assessment Creating and Solving Problems**

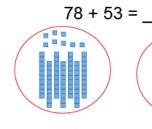
### **Developing Meaning of Addition and Subtraction**

7 = 5 + \_\_\_\_

Recognizes addition and subtraction situations

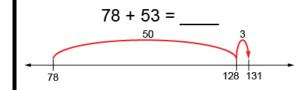


Models concretely to add and subtract



"78" "88, 98, 108, 118, 128, 129, 130, 131"

Models and symbolizes addition and subtraction



"I add 5 tens and 3 ones. 78 + 53 = 78 + 50 + 3, or 131"

#### **Observations/Documentation**

# **Activity 23 Assessment** Creating and Solving Problems

Developing Meaning of Addition and Subtraction (con't)		
Estimates sums and differences to check reasonableness  231 – 142 = 89  "230 – 140 = 90, which is close to 89 so my answer is reasonable."	Creates and solves problems  "There are 231 birds in the tree. Some birds flew away. Now there are 142 birds in the tree. How many birds flew away?"  231 - □ = 142 89 birds flew away.	Uses properties and inverse operations of addition and subtraction to solve problems $231 - \Box = 142$ "I can think addition to help me solve the problem: $142 + \Box = 231$ "
Observations/Documentation		

# **Activity 23 Assessment** Creating and Solving Problems

Developing Fluency for Addition and Subtraction		
Fluently adds and subtracts within 5	Fluently adds and subtracts to 10	Fluently adds and subtracts to 20
"I know 4 + 1 = 5 and 5 – 1 = 4."	"I know 8 + 2 = 10 and 10 - 2 = 8." (complements to 10)	"I can use doubles. I know $9 + 9 = 18$ and $18 - 9 = 9$ ."
Observations/Documentation		
Uses known sums and differences to solve addition and subtraction equations	Develops mental strategies and algorithms	Estimates sums and differences
"25 + 37 = □	$129 + 232 = \square$ I take 1 from 32 and give it to 129	149 + 138 = □ "149 is close to 150.
I know 25 + 30 = 55, and 55 plus 5 is 60,	to get 130 + 231.	138 is close to 140.
and 2 more makes 62." (decomposing, known facts)	130 + 230 = 360, and 1 more is 361." (compensation)	150 + 140 = 290" (using benchmarks)
Observations/Documentation		
Observations/Documentation	1	1