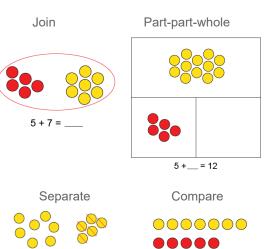
Activity 20 Assessment

Estimating Sums and Differences

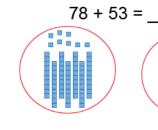
Developing Meaning of Addition and Subtraction

7 = 5 + ____

Recognizes addition and subtraction situations

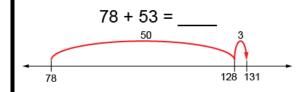


Models concretely to add and subtract



"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 20 Assessment Estimating Sums and Differences

Estimates sums and differences to check	Creates and solves problems	Uses properties and inverse operations of addition
reasonableness $131-42=89$ $"130-40=90, \text{ which is close to } 89 \text{ so my answer is reasonable."}$	"There are 131 birds in the tree. Some birds flew away. Now there are 42 birds in the tree. How many birds flew away?" 131 - □ = 42 89 birds flew away.	and subtraction to solve problems $131 - \square = 42$ "I can think addition to help me solve the problem: $42 + \square = 131$ "
Observations/Documentation		

Activity 20 Assessment Estimating Sums and Differences

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 "25 + 37 = □ I know 25 + 30 = 55, and 55 plus 5 is 60, and 2 more makes 62." (decomposing, known facts)	Develops mental strategies and algorithms $29 + 32 = \square$ I take 1 from 32 and give it to 29 to get 30 + 31. $30 + 30 = 60, \text{ and 1 more is 61.}$ (compensation)	Estimates sums and differences $49 + 38 = \square$ $"49 \text{ is close to } 50.$ $38 \text{ is close to } 40.$ $50 + 40 = 90"$ $(using benchmarks)$	
Observations/Documentation			