Activity 20 Assessment
Estimating Suns and Differences

Developing Fluency for Addition and Subtraction		
Fluently adds and subtracts within 5 "I know 4 + 1 = 5 and 5 – 1 = 4."	Fluently adds and subtracts to 10 "I know 8 + 2 = 10 and 10 – 2 = 8." (complements to 10)	Fluently adds and subtracts to 20 "I can use doubles. I know 9 + 9 = 18 and 18 – 9 = 9."
Observations/Documentation		

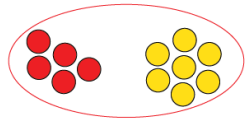| Uses known sums and differences to solve addition and subtraction equations "25 + 37 = ☐ I know 25 + 30 = 55, and 55 plus 5 is 60, and 2 more makes 62." (decomposing, known facts)	Develops mental strategies and algorithms 129 + 232 = ☐ I take 1 from 32 and give it to 129 to get 130 + 231. 130 + 230 = 360, and 1 more is 361." (compensation)	Estimates sums and differences 149 + 138 = ☐ "149 is close to 150. 138 is close to 140. 150 + 140 = 290" (using benchmarks)
Observations/Documentation		

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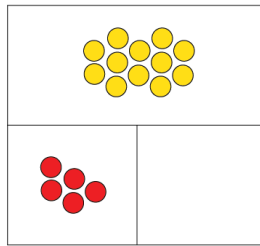
Developing Meaning of Addition and Subtraction
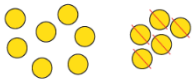
Recognizes addition and subtraction situations	Models concretely to add and subtract	Models and symbolizes addition and subtraction

Recognizes addition and subtraction situations

Join

$5 + 7 =$ ____

Part-part-whole

$5 +$ ___ $= 12$

Separate

$12 - 5 =$ ____

Compare
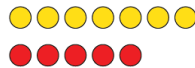
$7 = 5 +$ ____

Models concretely to add and subtract

$78 + 53 =$ ____
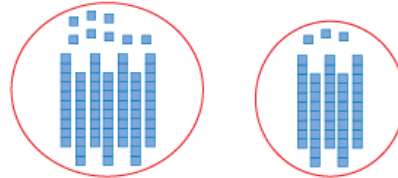
"78" "88, 98, 108, 118, 128, 129, 130, 131"

Models and symbolizes addition and subtraction

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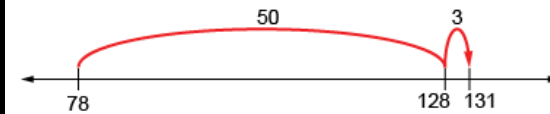
"I add 5 tens and 3 ones.
$78 + 53 = 78 + 50 + 3$, or 131"

Observations/Documentation

Activity 20 Assessment
Estimating Suns and Differences

Developing Meaning of Addition and Subtraction (con't)

Estimates sums and differences to check reasonableness	Creates and solves problems	Uses properties and inverse operations of addition and subtraction to solve problems
231 − 142 = 89 "230 − 140 = 90, which is close to 89 so my answer is reasonable."	"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.	231 − ☐ = 142 "I can think addition to help me solve the problem: 142 + ☐ = 231"

Observations/Documentation