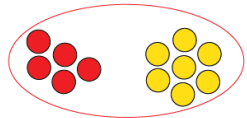# Activity 22 Assessment
Using Mental Math to Add and Subtract

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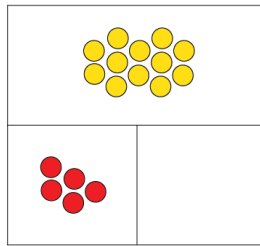
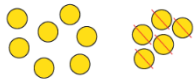| Recognizes addition and subtraction situations	Models concretely to add and subtract	Models and symbolizes addition and subtraction

Recognizes addition and subtraction situations

Join

5 + 7 = ____

Part-part-whole

5 + ___ = 12

Separate

12 – 5 = ____

Compare
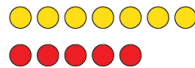
7 = 5 + ____

Models concretely to add and subtract

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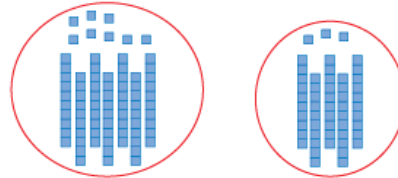
"78" "88, 98, 108, 118, 128, 129, 130, 131"

Models and symbolizes addition and subtraction

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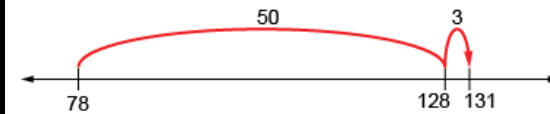
"I add 5 tens and 3 ones.
78 + 53 = 78 + 50 + 3, or 131"

Observations/Documentation

Developing Meaning of Addition and Subtraction (con't)		
Estimates sums and differences to check reasonableness 131 − 42 = 89 "130 − 40 = 90, which is close to 89 so my answer is reasonable."	Creates and solves problems "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.	Uses properties and inverse operations of addition and subtraction to solve problems 131 − ☐ = 42 "I can think addition to help me solve the problem: 42 + ☐ = 131"
Observations/Documentation		

Mathology 3
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Activity 22 Assessment
Using Mental Math to Add and Subtract

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 29 + 32 = ☐ I take 1 from 32 and give it to 29 to get 30 + 31. 30 + 30 = 60, and 1 more is 61." (compensation)	Estimates sums and differences 49 + 38 = ☐ "49 is close to 50. 38 is close to 40. 50 + 40 = 90" (using benchmarks)
Observations/Documentation		