Activity 23 Assessment Mastering Addition and Subtraction Facts

Developing Meaning of Addition and Subtraction Recognizes addition and subtraction situations Models concretely to add and subtract Models and symbolizes addition and subtraction Part-part-whole Join 78 + 53 = 78 + 53 = 128 131 "I add 5 tens and 3 ones. 78 + 53 = 78 + 50 + 3, or 131" "78" "88, 98, 108, 118, 128, 129, 130, 131" Separate Compare 7 = 5 + ____ **Observations/Documentation**

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Estimates sums and differences to check reasonableness 131 - 42 = 89 "130 - 40 = 90, which is close to 89 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.	Uses properties and inverse operations of addition and subtraction to solve problems $131 - \Box = 42$ "I can think addition to help me solve the problem $42 + \Box = 131$ "
Observations/Documentation		

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Developing Fluency for Addition and Subtraction			
Fluently adds and subtracts within 5 "I know 4 + 1 = 5 and 5 – 1 = 4." Observations/Documentation	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."	
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) Observations/Documentation	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)	