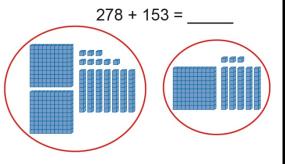
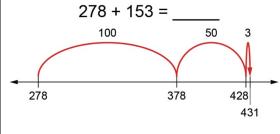
Developing Meaning of Addition and Subtraction

Models concretely to add and subtract



"278" "378, 388, 398, 408, 418, 428, 429, 430, 431"

Models and symbolizes addition and subtraction



"I add 5 tens and 3 ones. 78 + 53 = 78 + 50 + 3, or 131" Uses standard algorithm to add and subtract

$$\frac{^{2}1/3^{1}1}{-42}$$

Observations/Documentation

Activity 17 Assessment

Consolidation

Estimates sums and differences to check reasonableness	Creates and solves problems	Uses properties and inverse operations of addition and subtraction to solve problems
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 − \square = 42 "I can think addition to help me solve the problem $42 + \square = 131$ "
	131 − \square = 42 89 birds flew away.	42 1 🗆 – 101
Observations/Documentation		

Activity 17 Assessment

Consolidation

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 = □ "49 is close to 50. 38 is close to 40. 50 + 40 = 90" (using benchmarks)	