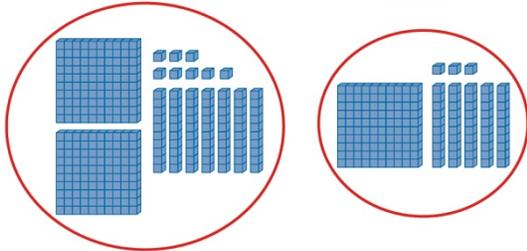# Activity 12 Assessment
Modelling Addition and Subtraction

Developing Meaning of Addition and Subtraction

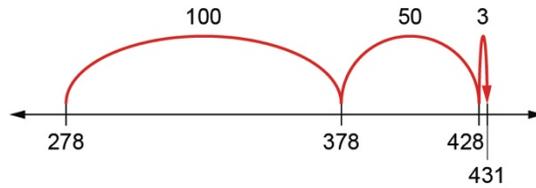| Models concretely to add and subtract	Models and symbolizes addition and subtraction	Uses standard algorithm to add and subtract

Models concretely to add and subtract

278 + 153 = _____

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

Models and symbolizes addition and subtraction

278 + 153 = _____

100   50   3

278   378   428
                        431

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

Uses standard algorithm to add and subtract

$$\begin{array}{r} {}^{\scriptize 1}2\,{}^{\scriptize 1}7\,8 \\ +\ 1\ 5\ 3 \\ \hline 4\ 3\ 1 \end{array}$$

$$\begin{array}{r} {}^{2}\cancel{V}\,\cancel{3}\,{}^{1}1 \\ -\quad 4\ 2 \\ \hline 8\ 9 \end{array}$$

Observations/Documentation

Mathology 3
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Activity 12 Assessment
Modelling Addition and Subtraction

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?" $131 - \square = 42$ 89 birds flew away.	Uses properties and inverse operations of addition and subtraction to solve problems $131 - \square = 42$ "I can think addition to help me solve the problem: $42 + \square = 131$"
Observations/Documentation		