

Name:

Analyzing Children's Ways of Adding and Subtracting

Children who understand place value and have not yet learned a standard way to add and subtract often have unique ways of doing addition and subtraction.

Analyze each of the following examples of student-work. If a student's thinking is correct, explain what the student is doing and **make another computation** to illustrate the student's approach. If it is not correct, explain what the student is doing wrong and how their work might be corrected.

1.

$$\begin{array}{r} 364 \\ - 79 \\ \hline -5 \\ -10 \\ \hline 300 \\ \hline 285 \end{array}$$

2.

$$\begin{array}{r} 25 \\ 364 \\ - 79 \\ \hline 285 \end{array}$$

3.

$$\begin{array}{r} 25 \\ 364 \\ - 79 \\ \hline 285 \end{array}$$

4.

$$\begin{array}{r} 364 \\ - 79 \\ \hline 285 \end{array}$$

5.

$$\begin{array}{r} 364 \\ - 79 \\ \hline 395 \end{array}$$

6.

FIRST I TAKE THE 70 FROM 360
AND THATS 290 THEN I PUT THE 4
BACK AND ITS 294 THEN I TAKE 9
AWAY 4 FIRST TO 290 THEN 5
SO ITS 285

7.

WELL I KNOW ITS THE SAME AS 365-80
AND THATS THE SAME AS 385-100
SO 285

8.

$$\begin{array}{r} 364 \\ - 79 \\ \hline 300 \\ - 20 \\ \hline 285 \end{array}$$

9.

$$\begin{array}{r} 364 \\ - 79 \\ \hline 300 \\ - 10 \\ \hline 290 \\ - 5 \\ \hline 285 \end{array}$$