Activity 5 Assessment
Exploring Addition Strategies

Conceptual Meaning of Whole Number Addition and Subtraction
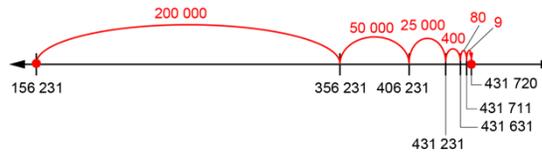
Recognizes addition and subtraction situations to 1 000 000	Models and symbolizes ways to solve problems to 1 000 000	Uses an understanding of place value to decompose numbers to solve problems to 1 000 000
How many views did the video get on its first two days online? "To find the total number of views, I need to add the number of views on Day 1 and the number of views on Day 2."	$156\ 231 + 275\ 489 = ?$ 	$156\ 231 = 100\ 000 + 50\ 000 + 6000 + 200 + 30 + 1$ $275\ 489 = 200\ 000 + 70\ 000 + 5000 + 400 + 80 + 9$ $156\ 231 + 275\ 489 = 300\ 000 + 120\ 000 + 11\ 000 + 600 + 110 + 10$ $= 431\ 720$ "I added hundred thousands with hundred thousands, ten thousands with ten thousands, thousands with thousands, and so on. I added like units."

Observations/Documentation

Conceptual Meaning of Whole Number Addition and Subtraction (cont'd)

Uses an understanding of place value to add and subtract to 1 000 000 using the standard algorithm	Estimates to determine if answer to problem is reasonable	Creates and solves multi-step addition and subtraction problems flexibly using a variety of strategies
968 867 – 790 283 = ?	968 867 – 790 283 = ?	A dancing monkey video got 54 977 likes one day and 127 522 likes the next. How many more likes does it need to reach 250 000?

Column 1:

$$\begin{array}{r} {\scriptstyle 8\,1 \quad 7\,1} \\ 968\ 867 \\ -\ 790\ 283 \\ \hline 178\ 584 \end{array}$$

"I used the standard algorithm."

Column 2:

"968 867 is close to 970 000 and 790 283 is close to 800 000.
970 000 – 800 000 = 170 000.
178 584 is close to 170 000.
So, my answer is reasonable."

Column 3:

$$\begin{array}{r} {\scriptstyle 1\ 1\ 1} \\ 54\ 977 \\ +\ 127\ 552 \\ \hline 182\ 529 \end{array} \qquad \begin{array}{r} {\scriptstyle 1\ 14\,9\ 9\,9\ 1} \\ 250\ 000 \\ -\ 182\ 529 \\ \hline 67\ 471 \end{array}$$

Observations/Documentation

Mathology 5 Alberta
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