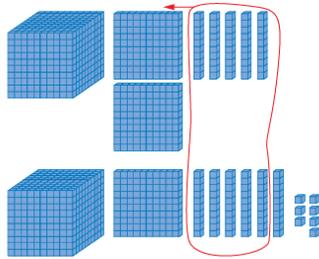


Activity 7B Assessment

Adding and Subtracting Larger Numbers (BC)

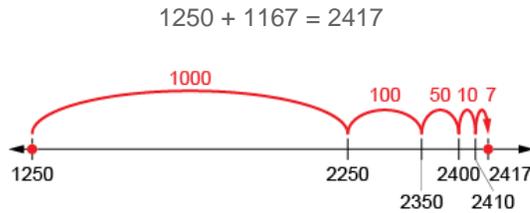
Conceptual Meaning of Whole Number Addition and Subtraction

Recognizes addition and subtraction situations and sketches a picture to add or subtract to 10 000.



$$1250 + 1167 = 2417$$

Models and symbolizes ways to solve problems to 10 000.



Uses an understanding of place value to decompose both numbers to solve problems to 100 000.

$$\begin{aligned} 1250 &= 1000 + 200 + 50 \\ 1167 &= 1000 + 100 + 60 + 7 \\ 1250 + 1167 &= 2000 + 300 + 110 + 7 \\ &= 2000 + 400 + 10 + 7 \\ &= 2417 \end{aligned}$$

$$\begin{array}{r} 1250 \\ + 1167 \\ \hline 2000 \\ 300 \\ 110 \\ + 7 \\ \hline 2417 \end{array}$$

"I added the thousands, the hundreds, the tens, and then the ones."

Observations/Documentation

Activity 7B Assessment

Adding and Subtracting Larger Numbers (BC)

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

Uses an understanding of place value to decompose one number to solve problems to 100 000.

$$\begin{aligned} 373\,872 - 71\,450 &= 373\,872 - 70\,000 - 1000 - 400 - 50 \\ &= 303\,872 - 1000 - 400 - 50 \\ &= 302\,872 - 400 - 50 \\ &= 302\,472 - 50 \\ &= 302\,422 \end{aligned}$$

Estimates to determine if answer to problem is reasonable.

$$373\,872 - 71\,450 = 302\,422$$

"I estimate 303 000 because 373 872 is close to 374 000, 71 450 is close to 71 000, and $374\,000 - 71\,000 = 303\,000$.

303 000 is close to 302 422, so, my answer is reasonable."

Creates and solves multi-step addition and subtraction problems flexibly using a variety of strategies.

Here are the populations of 3 Canadian cities in 2022:

Kelowna, BC: 125 109;

Regina, SK: 176 183;

Winnipeg, MB: 632 063.

How much greater is the population of Winnipeg than that of Kelowna and Regina combined?

"I added $125\,109 + 176\,183 = 301\,292$.

Then, $632\,063 - 301\,292 = 330\,771$.

The population is greater by 330 771."

Observations/Documentation