

Add and subtract two- and three-digit numbers using place value...

add and subtract two- and three-digit numbers using place value to partition, rearrange and regroup numbers to assist in calculations without a calculator

Learning intention

- add and subtract two- and three-digit numbers using place value to partition, rearrange and regroup numbers to assist in calculations without a calculator

Teach and model

- using partitioning and part-part-whole models and the inverse relationship between addition and subtraction to solve addition or subtraction problems, making informal...
- using physical or virtual grouped materials or diagrams to make proportional models of numbers to assist in calculations; for example, to calculate $214 + 325$...
- choosing between standard and non-standard place value partitions to assist with calculations; for example, to solve $485 + 365$, thinking of 365 as $350 + 15$, then...

Check understanding

- Explain the main idea in add and subtract two- and three-digit numbers using place value... using an example.
- Show the idea in a second way: with words, a model, a diagram or symbols.
- Apply the idea to a short unfamiliar situation and justify the result.

Teaching cautions

- Ask the student to explain their choice, not only state an answer.
- Check that key vocabulary is understood in a new example.
- Mix representations so the skill is transferred rather than copied.

Quick lesson sequence

- Connect to prior knowledge and introduce the key vocabulary.
- Model one clear example, then solve a second example together.
- Finish with an independent check and a short student explanation.