

Develop efficient strategies and use appropriate digital tools for solving...

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Learning intention

- develop efficient strategies and use appropriate digital tools for solving problems involving addition and subtraction, and multiplication and division where there is no...

Teach and model

- using and choosing efficient calculation strategies for addition and subtraction problems involving larger numbers; for example, place value partitioning, inverse...
- using physical or virtual materials to demonstrate doubling and halving strategies for solving multiplication problems; for example, for 5×18 , using the fact that...
- using an array to represent a multiplication problem, connecting the idea of how many groups and how many in each group with the rows and columns of the array, and writing...

Check understanding

- Explain the main idea in develop efficient strategies and use appropriate digital tools for solving... 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.