

# Add and subtract one- and two-digit numbers, representing problems using...

add and subtract one- and two-digit numbers, representing problems using number sentences, and solve using part-part-whole reasoning and a variety of calculation strategies

## Learning intention

- add and subtract one- and two-digit numbers, representing problems using number sentences, and solve using part-part-whole reasoning and a variety of...

## Teach and model

- using the associative property of addition to assist with mental calculation by partitioning, rearranging and regrouping numbers using number knowledge, near...
- using strategies such as doubles, near doubles, part-part-whole knowledge to 10, bridging tens and partitioning to mentally solve problems involving two-digit numbers...
- representing addition and subtraction problems using a bar model and writing a number sentence, explaining how each number in the sentence is connected to the...

## Check understanding

- Explain the main idea in add and subtract one- and two-digit numbers, representing problems using... 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.