

Compare, order and solve problems involving addition and subtraction of...

compare, order and solve problems involving addition and subtraction of integers

Learning intention

- compare, order and solve problems involving addition and subtraction of integers

Teach and model

- using less-than and greater-than notation in expressions when comparing and ordering integers; for example, negative 5 is less than positive 2 and can be represented as...
- discussing language such as “addition”, “subtraction”, “magnitude”, “difference”, “sign” and synonyms of these terms
- ordering, adding and subtracting integers using a number line

Check understanding

- Explain the main idea in compare, order and solve problems involving addition and subtraction of... 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.