

Solve problems involving addition and subtraction of fractions using knowledge...

solve problems involving addition and subtraction of fractions using knowledge of equivalent fractions

Learning intention

- solve problems involving addition and subtraction of fractions using knowledge of equivalent fractions

Teach and model

- representing addition and subtraction of fractions, using an understanding of equivalent fractions and methods such as jumps on a number line, or diagrams of...
- determining the lowest common denominator using an understanding of prime and composite numbers to find equivalent representation of fractions when...
- calculating the addition or subtraction of fractions in the context of realistic problems; for example, using part cups or spoons in a recipe; using the understanding of...

Check understanding

- Explain the main idea in solve problems involving addition and subtraction of fractions using knowledge... 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.