

Count by fractions including mixed numerals; locate and represent these...

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Learning intention

- count by fractions including mixed numerals; locate and represent these fractions as numbers on number lines

Teach and model

- cutting objects such as oranges or sandwiches into quarters and counting by quarters to find the total number, and saying the counting sequence: one-quarter...
- subdividing the sections between whole numbers on parallel number lines so that one shows halves, another shows quarters and one other shows thirds; counting the...
- converting mixed numerals into improper fractions and vice versa and representing mixed numerals on a number line

Check understanding

- Explain the main idea in count by fractions including mixed numerals; locate and represent these... 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.