

Find equivalent representations of fractions using related denominators and make...

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Learning intention

- find equivalent representations of fractions using related denominators and make connections between fractions and decimal notation

Teach and model

- extending fraction families within collections of materials; for example, by seeing $\frac{3}{4}$ as 3 in each 4, showing this within related fractions like $\frac{6}{8}$ or seeing that $\frac{2}{5} = \frac{4}{10}$...
- creating models of equivalent fractions by subdividing capacity measures into smaller fractions; for example, half a cup of flour could be shown as two-quarters or...
- folding paper to show equivalence between different fractions; for example, folding A4 paper in half and half again, repeating to form eighths and demonstrating that $\frac{1}{4} = \frac{2}{8}$...

Check understanding

- Explain the main idea in find equivalent representations of fractions using related denominators and make... 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.