

Solve problems that require finding a familiar fraction, decimal or...

solve problems that require finding a familiar fraction, decimal or percentage of a quantity, including percentage discounts, choosing efficient calculation strategies and using digital tools where appropriate

Learning intention

- solve problems that require finding a familiar fraction, decimal or percentage of a quantity, including percentage discounts, choosing efficient calculation strategies and...

Teach and model

- explaining how $\frac{1}{3}$ of a quantity can be achieved by dividing by 3, and how knowledge of $\frac{1}{3}$ of a quantity can be used to find $\frac{2}{3}$ or $\frac{4}{3}$ of the same...
- investigating percentage discounts of 15%, 30% and 45% in an online toy sale, using their equivalent decimal representations of 0.15, 0.3 and 0.45 to calculate the amount of...
- linking percentages to their decimal equivalent of tenths and hundredths and using these to determine percentage discounts; for example, finding 30% discount...

Check understanding

- Explain the main idea in solve problems that require finding a familiar fraction, decimal or... 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.