Check and explain the reasonableness of solutions to problems including...

check and explain the reasonableness of solutions to problems including financial contexts using estimation strategies appropriate to the context

Learning intention

- check and explain the reasonableness of solutions to problems including financial contexts using estimation strategies appropriate to the context

Teach and model

- interpreting a series of contextual problems to decide whether an exact answer or an approximate calculation is appropriate; explaining their reasoning in relation to the...
- recognising the effect of rounding addition, subtraction, multiplication and division calculations, rounding both numbers up, both numbers down, and one number up and...
- considering the type of rounding that is appropriate when estimating the amount of money required; for example, rounding up or rounding down when buying one item from a...

Check understanding

- Explain the main idea in check and explain the reasonableness of solutions to problems including... 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.