Choose and use estimation and rounding to check and explain...

choose and use estimation and rounding to check and explain the reasonableness of calculations including the results of financial transactions

Learning intention

- choose and use estimation and rounding to check and explain the reasonableness of calculations including the results of financial transactions

Teach and model

- using proficiency with basic facts to estimate the result of a calculation and say what amounts the answer will be between; for example, 5 packets of biscuits at \$2.60...
- using rounded amounts to complete an estimated budget for a shopping trip or an excursion, explaining why overestimating the amounts is appropriate
- recognising the effect of rounding in addition and multiplication calculations; rounding both numbers up, both numbers down and one number up and one number down, and...

Check understanding

- Explain the main idea in choose and use estimation and rounding to check and explain... 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.