Solve problems involving multiplication of larger numbers by one- or...

solve problems involving multiplication of larger numbers by one- or two-digit numbers, choosing efficient calculation strategies and using digital tools where appropriate; check the reasonableness of answers

Learning intention

- solve problems involving multiplication of larger numbers by one- or two-digit numbers, choosing efficient calculation strategies and using digital tools where...

Teach and model

- solving multiplication problems such as 253 \times 4 using a doubling strategy; for example, 2 \times 253 = 506 and 2 \times 506 = 1012
- solving multiplication problems like 15 \times 16 by thinking of factors of both numbers, 15 = 3 \times 5, 16 = 2 \times 8; rearranging the factors to make the calculation easier, 5...
- using an array to show place value partitioning to solve multiplication, such as 324 \times 8, thinking 300 \times 8 = 2400, 20 \times 8 = 160, 4 \times 8 = 32 then...

Check understanding

- Explain the main idea in solve problems involving multiplication of larger numbers by one- 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.