

Explain and use the properties of odd and even numbers

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Learning intention

- explain and use the properties of odd and even numbers

Teach and model

- identifying even numbers and explaining why all numbers that end in the digits 0, 2, 4, 6 and 8 are even and that numbers ending in 1, 3, 5, 7 and 9 are odd
- explaining why some materials can be shared evenly between 2 people without leaving a remainder and some cannot
- explaining the patterns involved in adding, subtracting and multiplying odd and even numbers; for example, even + even = even, odd + even = odd, odd + odd = even and...

Check understanding

- Explain the main idea in explain and use the properties of odd and even numbers 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.