

Situations, including financial contexts, that use integers; locate and represent...

recognise situations, including financial contexts, that use integers; locate and represent integers on a number line and as coordinates on the Cartesian plane

Learning intention

- recognise situations, including financial contexts, that use integers; locate and represent integers on a number line and as coordinates on the Cartesian plane

Teach and model

- extending the number line in the negative direction to locate and represent integers, recognising the difference in location between (-2) and $(+2)$ and their relationship...
- using integers to represent quantities in financial contexts, including the concept of profit and loss for a planned event
- using horizontal and vertical number lines to represent and find solutions to everyday problems involving locating and ordering integers around zero; for example, elevators...

Check understanding

- Explain the main idea in situations, including financial contexts, that use integers; locate and represent... 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.