

Find equivalent representations of rational numbers and represent rational numbers...

find equivalent representations of rational numbers and represent rational numbers on a number line

Learning intention

- find equivalent representations of rational numbers and represent rational numbers on a number line

Teach and model

- investigating equivalence of fractions using common multiples and a fraction wall, diagrams or a number line to show that a fraction such as $\frac{2}{3}$ is equivalent to...
- expressing a fraction in simplest form using common divisors
- applying and explaining the equivalence between fraction, decimal and percentage representations of rational numbers; for example, 16% , 0.16 , $\frac{16}{100}$ and...

Check understanding

- Explain the main idea in find equivalent representations of rational numbers and represent rational 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.