

Number checkpoint

Pearson Edexcel GCSE Mathematics 1MA1 • L012

Foundation and Higher • Lesson resources

REACH FOR THE STAR | GCSE MATHEMATICS

Purpose

Demonstrate cumulative number understanding, diagnose the cause of an error and verify a repair independently.

Vocabulary

Checkpoint: evidence at one point in learning. Diagnostic: used to choose teaching. Reference whole: quantity treated as 1 or 100%. Method mark: credit for a valid mathematical step.

Why the method works

Different errors need different repairs. Adding denominators is a unit error; reversing a percentage with the wrong base is a reference error; a decimal factor error is a place-value error. First identify the decision, then choose a representation and check.

Method and checking

Complete R1–R3 unaided as a short checkpoint. Tag each error: units, operation, scale or reference whole. Use the matching D example, then A and P tasks without the prompt. Record a fresh delayed check; do not infer a grade or fixed tier from this lesson.

Common errors and next attempt

Fraction-unit error: rebuild twelfths. Percentage-base error: label final as 80% and original as 100%. Scaling error: write the decimal operator. Reteach only the selected priority, then reassess $\frac{1}{3} + \frac{1}{4} = \frac{7}{12}$ or £48 after 20% off gives original £60.