Number and Calculations

Key Knowledge/Prior Learning and Retrieval and Suggested Starters
• Place value • Inequalities inc number lines

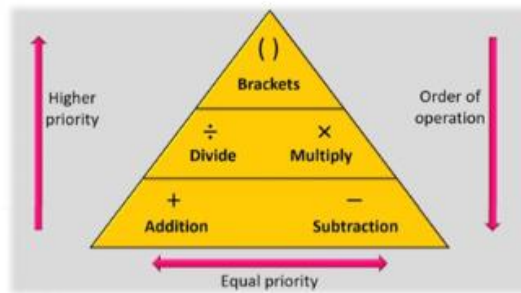| **KS3 National Curriculum – what students will be practicing and Key Questions** |
|---|
| • Ordering numbers inc decimals
• Calculations: Addition, subtraction, multiplying and dividing in decimals
• Order of operations
• Rounding and Estimation
• Multiples, Factors and Primes
• Prime factor decomposition
• HCF & LCM
• Error Intervals inc basic calculations or calculation error intervals |

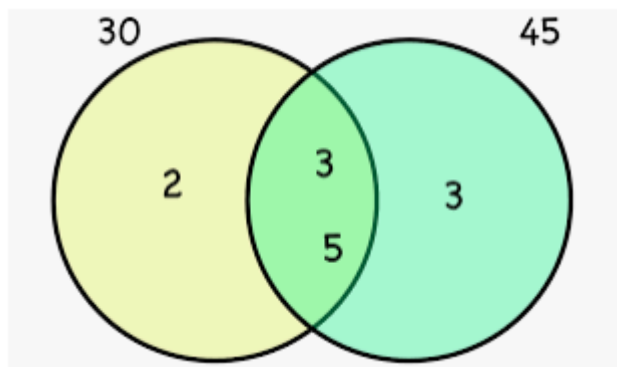| **Specific Ambitious Knowledge** |
|---|
| • Prime factorisation: factor trees and venn diagram or division and a table
• HCF: Through a table and through prime factors
LCM: From a list and through prime factors |

Key Vocabulary/Literacy Opportunities
• Place value • Operations • Decimal place • Significant figures • Multiple • Factor • Prime • Estimation • Approximation • Square • Cube • Square/Cube Root • Inequality • Greater/less than • Bounds • Limits of accuracy • Error Interval

Key Formulae/Knowledge

BIDMAS

HCF/LCM with a Venn

HCF/LCM through division

Error Intervals

x = 30cm to the nearest ten

25   30   35

$x \geq 25$ $x < 35$

$25 \leq x < 35$
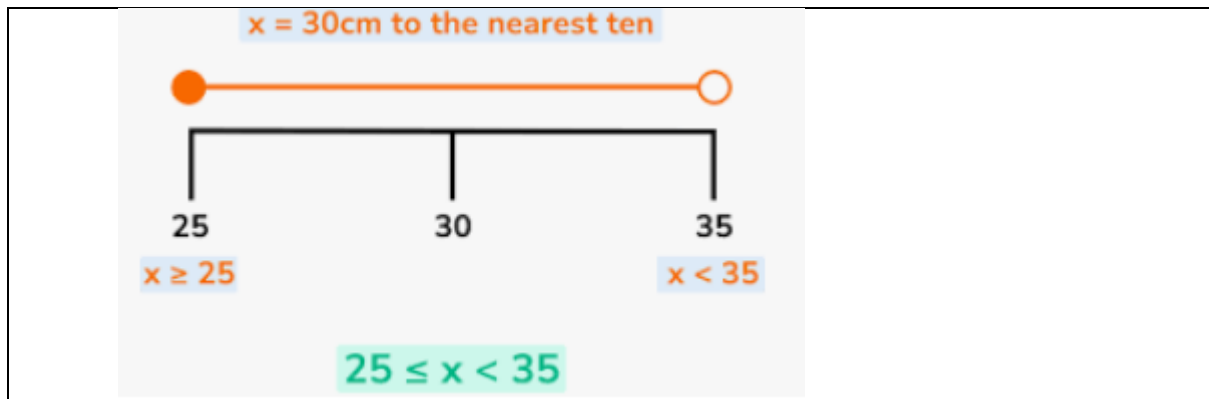
Maths in Context (Historical, Real Life and Student Thinking Points)

Projects/Enrichment/Investigations
- Filling the gaps: https://nrich.maths.org/7547?utm_source=secondary-map   - LCM Sudoku: https://nrich.maths.org/6018?utm_source=secondary-map   - Latin Numbers: https://nrich.maths.org/434?utm_source=secondary-map