

NUMBER SENSE AND ALGEBRA – OPERATING WITH DECIMALS (OwD)

OwD1 – UNDERSTANDING THE POSITIONAL VALUE OF DECIMALS

- I can use my knowledge of place value to help me add and subtract decimals of up to three decimal places

OwD2 – UNDERSTANDING AND ESTIMATING THE RELATIVE SIZE OF DECIMALS

- I can identify the size of decimals and round to estimate solutions
- I can use estimation to help me find solutions to problems, e.g. $1.23 + 3.4 \neq 1.57$ as the total must be greater than 4

OwD3 – UNDERSTANDING THE EFFECTS OF MULTIPLICATION & DIVISION WITH DECIMALS

- I can understand that multiplying and dividing decimals by 10, 100, 1000 changes the place value of the numerals
 - I can explain that multiplication does not always make the answer larger, e.g. $15 \times 0.5 = 7.5$
 - I can convert decimals to fractions to assist with mental computation involving multiplication, e.g. to find 16×0.25 , recognise 0.25 as $\frac{1}{4}$ then find one quarter of 16
 - I can convert decimals to fractions to assist with mental computation involving division, e.g. to find $0.5 \div 0.25$, recognise the answer is 2 as there are two quarters in one half
- I can match equivalent decimals to benchmark fractions, e.g. $\frac{1}{4} = 0.25$, $\frac{1}{2} = 0.5$, $\frac{3}{4} = 0.75$, $\frac{1}{10} = 0.1$ and $\frac{1}{100} = 0.01$

OwD4 – FLEXIBLE STRATEGIES FOR MULTIPLICATION & DIVISION OF DECIMALS

- I can use my knowledge of place value to help me multiply and divide decimals
- I can use approximation to check the accuracy of solutions