## Year 7 - fractional thnaning

## addition and subtraction of fractions

$$
\begin{aligned}
& 1 \text { I } \bar{K}-ー \text { Reywords } \\
& \text { I } \\
& \text { I Numerator : the number above the line on a fraction. The top number. Represents how many parts are taken } \\
& \text { I Denominator: the number below the line on a fraction The number represent the total number of parts } \\
& \text { I Equivalent: of equal value } \\
& \text { I Mixed numbers: a number with an integer and a proper fraction } \\
& \text { I Improper fractions: a fraction with a bigger numerator than denominator } \\
& \text { I Substitute: replace a variable with a numerical value } \\
& \text { I Place value: the value of a digit depending on its place in a number. In our decimal number system, each place is } \\
& \text { I } 10 \text { times bigger than the place to its right }
\end{aligned}
$$

add/Subtract fractions
Same denominator

add/Subtract unit fractions Same denomandor

| $\mid$ | $\frac{1}{12}+\frac{1}{12}-\frac{1}{12}$ | $\square$ |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |$|$

## add/Subtraction fractions (common multiples)




I Partitioning method
$2 \frac{1}{5}-1 \frac{3}{10}=2 \frac{2}{10}-1 \frac{3}{10}=2 \frac{2}{10}-1-\frac{3}{10}=1 \frac{2}{10}-\frac{3}{10}=\frac{9}{10}$

- Convert to an improper fraction


## Iadd/ Subtract from integers



## add/Subtraction any fractions


$\frac{12}{15}$
$\frac{10}{15}$

Use equivalent fractions to find a common multiple for both denominators

II Fractions in algebraic contexts

