## Castlefield School- Maths

## Key concepts and questions

## How do you add fractions?

## - $1 / 3+3 / 6=2 / 6+3 / 6=5 / 6$

- If it's mixed, convert to an improper fraction then simplify or add the wholes then the fractions.


## How do you multiply fractions? E.g. $2 / 3 \times 1 / 6$

Multiply the numerators $2 \times 1=2$

- Multiply the denominators $3 \times 6=18$
- $2 / 3 \times 1 / 6=2 / 18$

Simplify 2/18 = 1/9
Multiply and divide decimals by integers
Remember to line the decimal point up.


## Key Vocabulary

| whole | numerator | denominator | tenths |
| :--- | :--- | :--- | :--- |
| hundredths | thousandths | convert | order |
| equal to | less than | greater than |  |
| Common <br> Denominator | A common multiple for the <br> denominators of several <br> fractions. | Division | The line in a <br> fraction (vinculum) <br> means divide. |
| Mixed Number | A whole and a fraction | Per cent | Out of 100 |
| Improper | Numerator > Denominator | Simplify <br> e.g. $2 / 10=$ | To find the lowest <br> common factor of <br> the numerator and <br> denominator |
| Proper | Numerator < Denominator | N/5 | Nen |

## Representations

## Bar model

Used to support problem solving, represents how the whole is split into equal parts.


## Place value chart

Helps with understanding the value of numbers less than 1 .


