## Uni ${ }^{(3} 3$

## Vocalbulary \& big ideas

Operouions with whole numbers.
proctions, ${ }^{8}$
decimols

Any number from 0-9
$0,1,2,3,4,5,6,7,8,9$


The number that divides a division problem.

# $12 \div 3=4$ <br> Dividend Divisor Quotient 



The number that is divided in a division problem.
(Longer word=usually bigger number)


The answer to a division problem.

The number left over after dividing a number that is not evenly divisible by the divisor.

$$
32 / 6=5 R 2
$$

The remainder is 2

## Numeroror

The number on top of a fraction. It shows the number of unit fractions the fraction represents.

The number down below a fraction bar. It shows the number of unit fractions there are when divided into equal parts.
$3 \leqslant$ numerator (parts you are talking about)
$4 \leqslant \cdots$ denominator (equal parts in one whole or set)


## Equivallen

## Equal



1:2


2:4


4 :8


Fractions having the same
denominator. You can find a common denominator by finding a common multiple.

## Leos Common Mullple (LCM)

The least number that is a multiple of two or more numbers.
Example: 36 is the least common multiple of 9 and 12.
(The smallest multiple they share)

A fraction with 1 in the numerator.
Example: $\frac{1}{8}$

The product of a number and its reciprocal is 1 . The reciprocal of the fraction $a / b$ is $b / a$

$$
\frac{2}{1} \times \frac{1}{2}=\frac{2}{2}=1
$$

$$
\frac{6}{8} \text { reciprocal is } \frac{8}{6}
$$

When dividing fractions, you will keep flip change.

Example:

$$
\text { ( } \frac{1}{2} \div \frac{3}{4}
$$

# Operations that undo each other. 

 Addition and subtraction. Multipication and division.$$
\begin{gathered}
\text { Example: } \\
5+9=14, \text { so } 14-9=5 \\
7 * 9=63,5063 \div 7=9
\end{gathered}
$$



Divide the numerator and denominator by a common factor to make an equivalent fraction in its lowest form.
$\frac{5}{10}$ can be simplified by taking $\frac{5 \div 5}{10 \div 5}=\frac{1}{2}$

## Rewrite a fraction as an

equivalent fraction with a greater numerator and denominator.

## Example:

Unsimplify ${ }_{5}^{5}$ by multiplying it by $\frac{6}{6}$

$$
\text { So, } \frac{3}{5} \cdot \frac{6}{6}=\frac{18}{30}
$$

