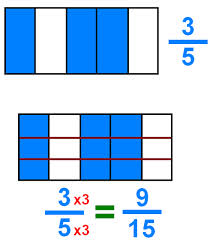
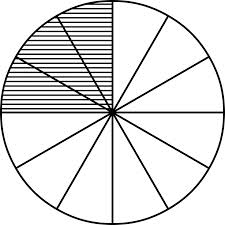
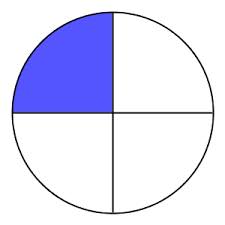
Fractions

Equivalent Fractions

Equivalent fractions are fractions that are the same size but use different values within the fraction.

For example:

 Just as:

Improper Fractions

We also have to recognise **Top Heavy** or **Improper** fractions

e.g. This is equal to because

make a whole 1 then there are 3 left from the 7 which are still quarters.

This works the other way too: 1

As the whole 1 is the same as plus the extra gives us

Adding fractions

To add fractions we must have the same number as the Denominator (Bottom Number)

e.g.

So if we have

We need to change the denominator so that we have the same.

Luckily 3 goes into 6 so we only have to change one of the fractions. This is where Equivalent fractions come in....

So the question now becomes......

which we can then simplify to ½

When the denominators do not work nicely like this we have to change both of them......

e.g.

We need to change the denominator so that we have the same.

This is where Equivalent fractions come in again....

and

As we need the denominator the same we have to go for the denominator that both 3 and 5 go into! Yep – you guessed it... 15

So the question now becomes......

and we are done!

Subtraction works **EXACTLY** the same!! You just take the numbers away at the end!

e.g.

Multiplying Fractions

To multiply fractions we simply multiply the numerator with the numerator and the denominator with the denominator.

A rhyme to remember it....

“Top with Top,

Bottom with Bottom,

Times them both,

Or you’re Rotten!”

e.g. which we can then simplify to

Dividing Fractions

To divide fractions we also have a nice, simple rule... if you can remember it....

COPY....... CHANGE....... FLIP

e.g.

so as the rule says.....

Copy the 1st Fraction... Change the sign to the opposite... Flip the 2nd fraction

x

We now have the multiplication