Can I convert improper fractions to mixed numbers?

An improper fraction is a fraction where the numerator is bigger than the denominator. It represents more than a whole.

For example:

$11/4$ 

A mixed number fraction has a whole number and a fraction. So the example above as a mixed number fraction would be $2\frac{3}{4}$

But how do we convert improper fractions to mixed number fractions without having to draw them all the time?

Step 1

The denominator tells us how many pieces make up one whole. So, if we divide the numerator by the denominator, we know how many wholes we have:

$11 \div 4 = 2 \text{ r } 3$

We can make 2 wholes

Step 2

The remainder becomes the fraction part of our mixed number.

So r 3 becomes $\frac{3}{4}$

Step 3

Our final answer is our improper fraction and mixed number given together:

$11/4 = 2\ 3/4$

Have a go at converting the improper fractions on the next page to mixed numbers.

Improper Fraction	Mixed Number
$^{11}/_{4}$	
$^{8}/_{5}$	
$^{10}/_{3}$	
$^{23}/_{6}$	
$^{34}/_{8}$	
$^{11}/_{10}$	
$^{30}/_{9}$	
$^{7}/_{2}$	
$^{31}/_{4}$	
$^{69}/_{7}$	
$^{18}/_{5}$	

Improper Fraction	Mixed Number
$^{11}/_{4}$	$2\ ^{3}/_{4}$
$^{8}/_{5}$	$1\ ^{3}/_{5}$
$^{10}/_{3}$	$3\ ^{1}/_{3}$
$^{23}/_{6}$	$3\ ^{5}/_{6}$
$^{34}/_{8}$	$4\ ^{2}/_{8}$
$^{11}/_{10}$	$1\ ^{1}/_{10}$
$^{30}/_{9}$	$3\ ^{3}/_{9}$
$^{7}/_{2}$	$3\ ^{1}/_{2}$
$^{31}/_{4}$	$7\ ^{3}/_{4}$
$^{69}/_{7}$	$9\ ^{6}/_{7}$
$^{18}/_{5}$	$3\ ^{3}/_{5}$