

More improper fractions

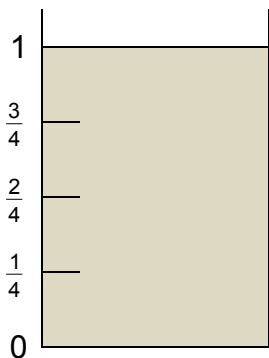
Have a look at these fractions: $\frac{9}{4}$, $\frac{7}{2}$, $\frac{12}{5}$, $\frac{15}{7}$.

These are also **improper** fractions because the top number is bigger than the bottom number. You can divide the **bottom number** into the **top number** to simplify the fraction into **whole numbers**, but it doesn't divide exactly. There is a **remainder**, which you need to write as a **fraction**.

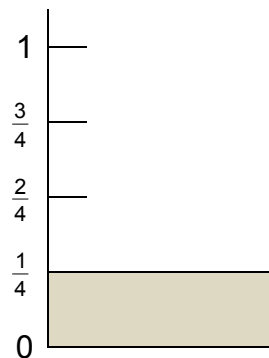
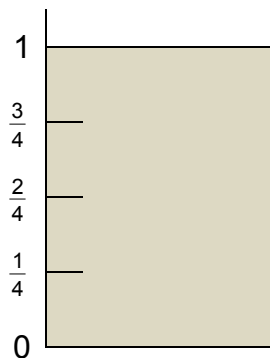
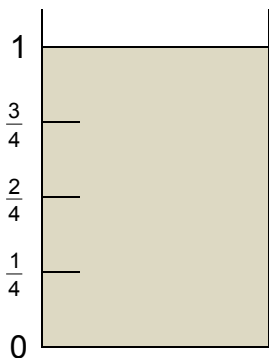
Example

A recipe uses a quarter of a litre of milk per person. For nine people this would be nine quarters, in other words $\frac{9}{4}$ litres. What is this as a mixed number? How many full litres are there? What is the remainder - how much is left over?

When you have a denominator, or bottom number, of **4** you are dealing with **quarters**. Four quarters equal one whole, or 1.



Eight quarters equal two wholes, or two. One more quarter is **nine** quarters, which is two wholes and one quarter left over.



You can write $\frac{9}{4}$ as a mixed number: $2\frac{1}{4}$. This means nine lots of a quarter litres is $2\frac{1}{4}$ litres.