Factorising is the opposite of expanding brackets in an expression.

One way of factorising quadratics is to use the St Andrews Cross method.

To factorise x squared plus three x plus two, first find the factors of x squared, and put these on the left of the cross, so x and x.

Find the factors of the constant term, which is two, that also add to make the x term, in this case three.

So, the factors here are two and one.

Put these values on the right of the cross.

The terms across the top go in the first bracket, x plus two, and the terms across the bottom go in the second bracket, x plus one.

Three x squared subtract x subtract four is a trickier example as it includes a multiple of x squared and negative terms.

In this case, the factors for three X squared are three X and X

There are lots of factor pairs for negative four. The pair that fits are negative four and one because they multiply to give negative four X plus three X which add to get the middle term, negative X.

Put these in the cross and transfer to the brackets.

Three X subtract four and X plus one.