**How to Factor Quadratic Trinomials (a=1)**

Basic Quadratic Expression

A basic quadratic expression has three terms.

**a is the coefficient for x2**

**b is the coefficient for x**

**c is a constant**

When

If we usually need to find a new strategy.

LOOK FOR A COMMON FACTOR, a number which goes into the a, b and c terms. This will show you that your quadratic has 3 factors.

Here all three terms are divisible by 2 (even), factor out a 2 and continue steps above.

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**Factoring Quadratic Trinomials**

**Factoring:** a number or quantity that when multiplied with another produces a given number or expression.

Here we will be finding the **two binomials** which multiply to make a **quadratic trinomial**.

**Process**

1. **Define your a, b and c terms. This method only works when a = 1**
2. List the factors of the **c** term
3. **Choose the set of factors that add up to the b term. Here 2 and -5 add up to -3.**
4. **Rewrite these factors inside of parentheses along with the variable from the question.**

Distributing all terms (FOIL)

**Quadratic trinomials** are typically created by multiplying **two binomials**.

Distributing means multiplying all terms. Since there are 4 terms, you should have **4 answers**. We use the acronym FOIL (First, Outer, Inner, Last) to make sure we multiply all terms.