

# 9 3 skills practice factoring trinomials

## answers

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**How do you answer factoring trinomials?** To factor a trinomial in the form  $x^2 + bx + c$ , find two integers,  $r$  and  $s$ , whose product is  $c$  and whose sum is  $b$ . Rewrite the trinomial as  $x^2 + rx + sx + c$  and then use grouping and the distributive property to factor the polynomial. The resulting factors will be  $(x + r)$  and  $(x + s)$ .

**How to factor a three-term polynomial?**

**What is factoring general trinomials?** For this lesson, we will examine trinomials written in the form  $ax^2 + bx + c$ , where  $a$ , the leading coefficient, does not equal zero. To factor a trinomial means to rewrite it as a product of two binomials. This means that we are going to rewrite the trinomial in the form  $(x + m)(x + n)$ .

**How to do factoring in math?**

**How to solve trinomials step by step?**

**How to solve factorization?**

**What is an example of a trinomial equation?** Examples of a trinomial expression:  $x + y + z$  is a trinomial in three variables  $x$ ,  $y$  and  $z$ .  $2a^2 + 5a + 7$  is a trinomial in one variable  $a$ .  $xy + x + 2y^2$  is a trinomial in two variables  $x$  and  $y$ .

**How to factorise quickly?**

**How do you multiply a trinomial?** Correct answer: To multiply trinomials, simply foil out your factored terms by multiplying each term in one trinomial to each term in the other trinomial.

## How to simplify a trinomial?

**What comes after trinomial?** Answer and Explanation: A polynomial that comes after a trinomial would be a polynomial with four terms. We have special names for polynomials that are classified by the number of terms they contain. These are as follows: If a polynomial is a single number, then we call it a constant polynomial.

**What are the 3 steps of factoring?** Step 1: Group the first two terms together and then the last two terms together. Step 2: Factor out a GCF from each separate binomial. Step 3: Factor out the common binomial. Note how there is not a GCF for ALL the terms.

**How to find GCF?** The greatest common factor is the greatest factor that divides both numbers. To find the greatest common factor, first list the prime factors of each number. 18 and 24 share one 2 and one 3 in common. We multiply them to get the GCF, so  $2 \times 3 = 6$  is the GCF of 18 and 24.

**What is the GCF of two numbers?** The GCF stands for the “greatest common factor”. The GCF is defined as the largest number that is a factor of two or more numbers. For example, the GCF of 24 and 36 is 12, because the largest factor that is shared by 24 and 36 is 12. 24 and 36 have other factors in common, but 12 is the largest.

**What is the perfect square trinomial?** A perfect square trinomial is defined as an algebraic expression that is obtained by squaring a binomial expression. It is of the form  $ax^2 + bx + c$ . Here  $a$ ,  $b$ , and  $c$  are real numbers and  $a \neq 0$ . For example, let us take a binomial  $(x+4)$  and multiply it to  $(x+4)$ . The result obtained is  $x^2 + 8x + 16$ .

## Is there a trick to factoring Trinomials?

**Is  $3xy$  a monomial?** A monomial is an expression in algebra that contains one term, like  $3xy$ . Monomials include numbers, whole numbers and variables that are multiplied together, and variables that are multiplied together. A polynomial is a sum of monomials where each monomial is called a term.

## How to factor polynomials without GCF?

**What is the middle term split?** Splitting of the middle term is that we have to rewrite the middle term of the quadratic expression as the sum or difference of the two terms. We have to split the middle term into two parts in terms of sum or difference of the terms.

**What is the trick of factorization?** Magic Trick 1: If the digits of a number add up to 3, then 3 is a factor. Why? This video explains it. Magic Trick 2: If the last two digits of a number are divisible by 4, then 4 is a factor.

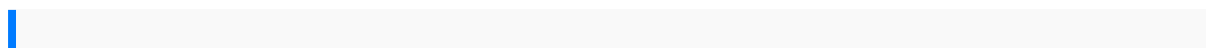
**How to find vertex?**

**What is the formula for factoring perfect trinomials?** Factoring perfect square trinomials:  $(a + b)^2 = a^2 + 2ab + b^2$  or  $(a - b)^2 = a^2 - 2ab + b^2$ .

**How to factor trinomials by grouping?**

**What is the method used to factor trinomials of the form?** An alternate technique for factoring trinomials, called the AC method, makes use of the grouping method for factoring four-term polynomials. If a trinomial in the form  $ax^2+bx+c$  can be factored, then the middle term,  $bx$ , can be replaced with two terms with coefficients whose sum is  $b$  and product  $ac$ .

**How to factor trinomials using the box method?** To factor a trinomial using the box method, first place the first term in the first box and the last term in the last box. Then multiply the first and last box. Find two terms which are the product of the first and last box, and which add up to be the middle term. Place these terms into the remaining boxes.



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