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16.) $x^2 + 15x + 56$

$a \cdot c = 1 \cdot 56 = 56$ $\frac{8}{8} \cdot \frac{7}{7} = 56$
 $b = 15$ $\frac{8}{8} + \frac{7}{7} = 15$

$(x+7)(x+8)$

17.) $x^2 - 11x + 28$ *Special Case*

$a \cdot c = 1 \cdot 28 = 28$ $\frac{-4}{-4} \cdot \frac{-7}{-7} = 28$
 $b = -11$ $\frac{-4}{-4} + \frac{-7}{-7} = -11$

$(x-7)(x-4)$

18.) $x^2 + 2x - 15$

$a \cdot c = 1 \cdot -15 = -15$ $\frac{-3}{-3} \cdot \frac{5}{5} = -15$
 $b = 2$ $\frac{-3}{-3} + \frac{5}{5} = 2$

$(x+5)(x-3)$

19.) $3x^2 + 14x + 8$

$a \cdot c = 3 \cdot 8 = 24$ $\frac{12}{12} \cdot \frac{2}{2} = 24$
 $b = 14$ $\frac{12}{12} + \frac{2}{2} = 14$

$(3x+2)(x+4)$

20.) $16x^2 - 49$

$a \cdot c = 16 \cdot -49 = -784$ $\frac{-28}{-28} \cdot \frac{28}{28} = -784$
 $b = 0$ $\frac{-28}{-28} + \frac{28}{28} = 0$

$(4x+7)(4x-7)$

In this case, there is no "b" value. So it is 0. Also, when that is the case, we can take the square root of the "a,c" value to find the missing numbers.

Factoring binomials and trinomials worksheet answers. Factoring binomials worksheet with answers. Factoring binomials worksheet with answers pdf.

Practice the worksheet on factoring out a common binomial factor from a polynomial expression which is similar to factoring using G.C.F. We know, G.C.F. of some of the terms is a binomial instead of monomial. In such cases we can factor the entire binomial from the expression. Thus, this find of binomial which is the G.C.F. of more than one term in a polynomial is called the common binomial factor. 1. Factorize by taking binomial as a common factor: (i) $3(x+5) + 7(x+5)$ (ii) $(x+4) + (x+4)$ (iii) $2(5x+3y) + z(5x+3y)$ (iv) $3(x-4y) - 5p(x-4y)$ (v) $b(x-y) + a(y-x)$ Hint: $(y-x)$ to $-(x-y)$ 2. Factorize a common binomial factor from each of the following expression: (i) $x(a+b) - y(a+b)$ (ii) $15(pq+1) + 3r(pq+1)$ (iii) $l^2 + m^2 + 9a(l^2 + m^2)$ (iv) $3(l+m) - 5(l+m)$ (v) $l(3m-7n) - n(3m-7n)$ (vi) $2m-5$ (vii) $2b-3a$ (viii) $x(x+y) + (5x+5y)$ (ix) $6xy+3x$ and $2y+1$ (x) $p(q-r)^2 - s(r-q)^3$ Hint: $p(q-r)^2 = p(r-q)^2(x-c-3) + (3ab-abc) = ab(3-c) = -ab(c-3)$ Answers for the worksheet on factoring out a common binomial factor are given below to check the exact answers of the above factorization. Answers: 1. (i) $10(x+5)$ (ii) $(x+4)$ (iii) $(5x+3y)(2+z)$ (iv) $(x-4y)(3r-5p)$ (v) $(x-y)(b-a)$ 2. (i) $(a+b)(x-y)$ (ii) $3(pq+1)(5+r)$ (iii) $(l^2+m^2)(1+9a)$ (iv) $(l+m)(3-5)$ (v) $(3m-7n)(l-n)$ (vi) $2(2m-5)(3a-2b)$ (vii) $(x+y)(x+5)$ (viii) $(3x+1)(2y+1)$ (ix) $(q-r)^2(p+sq-sr)$ (x) $(1-ab)(c-s)$ 8th Grade Math Practice Math Homework Sheets From Worksheet on Factoring out a Common Binomial Factor to HOME PAGE Didn't find what you were looking for? Or want to know more information about Math Only Math. Use this Google Search to find what you need. Share this page: What's this? We can have two types of binomials cubed, a difference or a sum. The sum of cubes is an expression with the general form $a^3 + b^3$ and a difference of cubes is an expression with the general form $a^3 - b^3$. To factor binomials cubed, we can follow the following steps: Step 1: Factor the common factor of the terms if it exists to obtain a simpler expression. We must not forget to include the common factor in the final answer. Step 2: We have to rewrite the expression as a sum or difference of two perfect cubes. Step 3: We can write the answer using the following sentences: a) "Write what you see" b) "Square - Multiply - Square" c) If it is a sum of cubes, we have the signs "Positive, Negative, Positive" and if it is a difference of cubes, we have the signs "Negative, Positive, Positive" Step 4: We join the resulting parts to obtain the final factored expression. Factoring binomials cubed - Examples with answers The following examples of factoring binomials cubed apply the solving process detailed above. It is recommended that you try to solve the exercises yourself before looking at the solution. Factor the binomial $x^3 + 8$. Step 1: We don't have any common factors to factor, so we can't simplify. Step 2: We have to rewrite the original problem as a sum of two perfect cubes: $x^3 + 8 = (x)^3 + (2)^3$ Step 3: a) If we ignore the parentheses and the cubes, we see the expression: $x^3 + 2^3$ Squaring the first term, x , we get x^2 . By multiplying the terms x and 2 , we get $2x$. Squaring the second term, 2 , we have 4 . $x^3 + 2^3 = (x)^3 + 2^3$ This is a sum of binomials cubed, so the signs are "Positive, Negative, Positive". Step 4: The factored expression is: $x^3 + 2^3 = (x+2)(x^2 - 2x + 4)$ Factor the expression $x^3 - 27$. Step 1: Here, we don't have common factors either, so we can't factor initially. Step 2: Now, we write the original problem as a difference of two perfect cubes: $x^3 - 27 = (x)^3 - (3)^3$ Step 3: a) If we eliminate the parentheses and the cubes, we see the expression: $x^3 - 3^3$ Squaring the first term, x , we have x^2 . Multiplying the terms x and 3 , we have $3x$. Squaring the second term, 3 , we have 9 . $x^3 - 3^3 = (x)^3 - 3^3$ This is a difference of cubes, so the signs we have to use are "Negative, Positive, Positive". Step 4: The factored expression is: $x^3 - 3^3 = (x-3)(x^2 + 3x + 9)$ Obtain the factorization of the sum of cubes $8x^3 + 125$. Step 1: We cannot factor this expression initially as there are no common factors. Step 2: We can rewrite the expression as a sum of two perfect cubes: $8x^3 + 125 = (2x)^3 + (5)^3$ For a sum of cubes, we must use the signs "Positive, Negative, Positive". Step 4: The factored expression is: $8x^3 + 125 = (2x+5)(4x^2 - 10x + 25)$ Start now: Explore our additional Mathematics resources Factor the difference of cubes $27x^3 - 216y^3$. Step 1: We cannot factor initially because we do not have common factors. Step 2: We write the expression as a difference of two perfect cubes: $27x^3 - 216y^3 = (3x)^3 - (6y)^3$ Step 3: a) By removing parentheses and cubes, we have the expression: $3x - 6y$ b) Squaring the first term, $3x$, we have $9x^2$. By multiplying the terms $3x$ and $6y$, we get $18xy$. If we square the second term, $6y$, we get $36y^2$. $3x^3 - 6y^3 = (3x)^3 - (6y)^3$ For a difference of cubes, we have the signs "Negative, Positive, Positive". Step 4: The final factored expression is: $3x^3 - 6y^3 = (3x-6y)(9x^2 + 18xy + 36y^2)$ Factor the sum of cubes $54x^3 + 16y^3$. Step 1: Here, we do not have a common factor. 2. We can extract the 2 from both terms: $54x^3 + 16y^3 = 2(27x^3 + 8y^3)$ Step 2: Now, we can write the expression as a sum of two perfect cubes: $2(27x^3 + 8y^3) = 2((3x)^3 + (2y)^3)$ Step 3: a) If we ignore the parentheses and the cubes, we have: $3x + 2y$ b) The first term, $3x$, when squared is equal to $9x^2$. The product of the terms $3x$ and $2y$ is $6xy$. The square of the second term, $2y$, is $4y^2$. $2(27x^3 + 8y^3) = 2(3x+2y)(9x^2 + 6xy + 4y^2)$ Step 4: We obtained the following factorization: $2(3x+2y)(9x^2 + 6xy + 4y^2)$ Obtain the factorization of $8-27x^3$. Step 1: We have no common factor in the terms. Step 2: If we rewrite the expression as a difference of two perfect cubes, we have: $8 - 27x^3 = (2)^3 - (3x)^3$ Step 3: a) If we remove the parentheses and ignore the cubes, we see the expression: $2 - 3xy$ b) The first term, 2 , when squared is 4 . The product of the terms 2 and $3xy$ is $6xy$. The second term, $3xy$ squared is $9x^2y^2$. $2^3 - (3x)^3 = (2-3xy)(4+6xy+9x^2y^2)$ Factoring binomials cubed - Practice problems Practice what you have learned about factoring binomials cubed with the following problems. If you need help, you can look at the solved examples shown above. See also interested in learning more about the factorization of polynomials? Take a look at these pages: report this ad Practice the worksheet on factoring binomials to know how to find the common factor from the binomials. For factoring the binomials we need to find the common factor in each term so that we can find out the common factor. Note: To practice factoring binomials recall the reverse method of distributive law means in short re-distributing the factor. 1. Factorize the following binomials: (i) $3a + 21$ (ii) $7m - 14$ (iii) $y^3 + 3y$ (iv) $20x + 5x^2$ (v) $-16x + 20x^3$ (vi) $5x^2y + 15xy^2$ (vii) $9a^2 + 5a$ (viii) $19a - 57b$ (ix) $25a^2b^2c^3 - 15ab^3c$ 2. Factor each of the following algebraic expression: (i) $13n + 39$ (ii) $19y - 57z$ (iii) $21xy + 49xyz$ (iv) $-16p + 20p^3$ (v) $12x^2y - 42xyz$ (vi) $27a^3b^3 + 36a^4b^2$ Answers for the worksheet on factoring binomials are given below to check the exact answers of the simple factors. Answers: 1. (i) $3(a+7)$ (ii) $7(m-2)$ (iii) $y(y+3)$ (iv) $5x(4+x)$ (v) $4x(4+5x)$ (vi) $5xy(x+y)$ (vii) $a(9a+5)$ (viii) $19(a-3b)$ (ix) $5ab^2c^2(5ac^2-3b)$ 2. (i) $13n+39$ (ii) $19y-57z$ (iii) $21xy+49xyz$ (iv) $-16p+20p^3$ (v) $12x^2y-42xyz$ (vi) $27a^3b^3+36a^4b^2$ Answers for the worksheet on factoring binomials are given below to check the exact answers of the simple factors. Answers: 1. (i) $3(a+7)$ (ii) $7(m-2)$ (iii) $y(y+3)$ (iv) $5x(4+x)$ (v) $4x(4+5x)$ (vi) $5xy(x+y)$ (vii) $a(9a+5)$ (viii) $19(a-3b)$ (ix) $5ab^2c^2(5ac^2-3b)$ 2. (i) $13n+39$ (ii) $19y-57z$ (iii) $21xy+49xyz$ (iv) $-16p+20p^3$ (v) $12x^2y-42xyz$ (vi) $27a^3b^3+36a^4b^2$ Didn't find what you were looking for? Or want to know more information about Math Only Math. Use this Google Search to find what you need. Share this page: What's this? Objective: I can factor binomials that are difference of squares. A difference of squares is a binomial of the form: $a^2 - b^2$ Take note that the first term and the last term are both perfect squares. When we factor a difference of two squares, we will get $a^2 - b^2 = (a+b)(a-b)$ This is because $(a+b)(a-b) = a^2 - ab + ab - b^2 = a^2 - b^2$ Read the lesson on Difference of Squares if you need more information. Fill in all the gaps, then press "Check" to check your answers. Use the "Hint" button to get a free letter if an answer is giving you trouble. You can also click on the "[?]" button to get a clue. Note that you will lose points if you ask for hints or clues! Factoring Binomials Calculator Type in the binomial and select factor on the Mathway calculator below. Try the free Mathway calculator and problem solver below to practice various math topics. Try the given examples, or type in your own problem and check your answer with the step-by-step explanations. We welcome your feedback, comments and questions about this site or page. Please submit your feedback or enquiries via our Feedback page.

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