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Factoring by grouping worksheet answers with work

Factoring by Grouping - Practice Problems Move your mouse over Reply to reveal the answer, or click the Integrated Solution link to reveal all the steps required for the grouping agent. If you see this message, it means we don't have a problem loading external resources into our website. If you are behind a web filter, make sure that the *.kastatic.org and *.kasandbox.org are unblocked. In the worksheet about factoring with grouping we will solve different types of problems in factorization. In this sheet students can practice how by taking into account grouping. Factorization by grouping the following expressions:1. Factor the following: (i) $12x + 15$ (ii) $14m - 21$ (iii) $9n - 12n^2$ 2. Factor by grouping expressions: (i) $16a^2 - 24ab$ (ii) $15ab^2 - 20a^2b$ (iii) $12x^2y^3 - 21x^3y^2$ 3. Factorize expressions: (i) $24x^3 - 36x^2y$ (ii) $10x^3 - 15x^2$ (iii) $36x^3y - 60x^2y^2z$ 4. Factorize: (i) $9x^3 - 6x^2 + 12x$ (ii) $8x^2 - 72xy + 12x$ (iii) $18a^3b^3 - 27a^2b^3 + 36a^3b^2$ 5. How to factor out the grouping? (i) $14x^3 + 21x^4y - 28x^2y^2$ (ii) $-5 - 10t + 20t^2$ 6. Factoring: (i) $x(x + 3) + 5(x + 3)$ (ii) $5x(x - 4) - 7(x - 4)$ (iii) $2m(1 - n) + 3(1 - n)$ 7. Factoring expressions:(i) $6a(a - 2b) + 5b(a - 2b)$ (ii) $x^3(2a - b) + x^2(2a - b)$ 8. How to factor with polynomial grouping? (i) $9a(3a - 5b) - 12a^2(3a - 5b)$ (ii) $(x + 5)^2 - 4(x + 5)$ (iii) $3(a - 2b)^2 - 5(a - 2b)$ 9. Factor completely: (i) $2a + 6b - 3(a + 3b)^2$ (ii) $16(2p - 3q)^2 - 4(2p - 3q)$ (iii) $x(a - 3) + y(3 - a)$ (iv) $12(2x - 3y)^2 - 16(3y - 2x)$ (v) $(x + y)(2x + 5) - (x + y)(x + 3)$ 10. How to factor with polynomial grouping? (i) $ar + br + in + bt$ (ii) $x^2 - ax - bx + ab$ (iii) $ab^2 - bc^2 - ab + c^2$ (iv) $x^2 - xz + xy - yz$ (v) $6ab - b^2 + 12ac - 2bc$ 11. Solving by factoring: (i) $(x - 2y)^2 + 4x - 8y$ (ii) $y^2 - xy(1 - x) - x^3$ (iii) $(ax + b)^2 + (bx - ay)^2$ (iv) $ab^2 + (a - 1)b - 1$ 12. Factoring Algebraic Expressions: (i) $x^3 - 3x^2 + x - 3$ (ii) $ab(x^2 + y^2) - xy(a^2 + b^2)$ (iii) $x^2 - x(a + 2b) + 2ab$ Responses to the worksheet on factoring by grouping are given below to check the exact answer. Answers: 1. (i) $3(4x + 5)$ (ii) $7(2m - 3)$ (iii) $3n(3 - 4n)$ 2. (i) $8a(2a - 3b)$ (ii) $5ab(3b - 4a)$ (iii) $3x^2y^2(4y - 7x)$ 3. (i) $12x^2(2x - 3y)$ (ii) $5x^2(2x - 3)$ (iii) $12x^2y(3x - 5y^2z)$ 4. (i) $3x(3x^2 - 2x + 4)$ (ii) $4x(2x - 18y + 3)$ (iii) $9a^2b^2(2ab - 3b + 4a)$ 5. (i) $7x^2(2x + 3xy - 4y^2)$ (ii) $-5(1 + 2t - 4t^2)$ 6. (i) $(x + 3)(x + 5)$ (ii) $(x - 4)(5x - 7)$ (iii) $(1 - n)(2m + 3)$ 7. (i) $(a - 2b)(6a + 5b)$ (ii) $x^2(2a - b)(x + 1)$ 8. (i) $3a(3a - 5b)(3 - 4a)$ (ii) $(x + 5)(x + 1)$ (iii) $(a - 2b)(3a - 6b - 5)$ 9. (i) $(a + 3b)(2 - 3a - 9b)$ (ii) $4(2p - 3q)(8p - 12q - 1)$ (iii) $(a - 3)(x - y)$ (iv) $4(2x - 3y)(6x - 9y + 4)$ (v) $(x + y)(x^2 - 10)$ i) $(r + t)(\alpha + \beta)$ (ii) $(x - a)(x)$ (iii) $\beta - 1(ab - c^2)$ iv) $(x - z)(x + y)$ (v) $\beta + 2y(6\alpha - \beta)$ 11. (i) $(x - 2y)(x - 2y + 4)$ (ii) $(y - x)(y + x^2)$ (iii) $(a^2 + b^2)(x^2 + y^2)$ (iv) $(b + 1)(ab - 1)$ (i) $(x^2 + 1)(x - 3)$ (ii) $(bx - ay)(ax - by)$ (iii) $(x - 2b)(x - a)$ 8th grade Mathematics PracticeLearned Worksheets for Factoring by grouping on the home page did not find what you were looking for? Alternatively, you want to learn more about Mathematics only mathematics. Use this Google Search to find what you need. Sometimes it is impossible to take into account a polynomial by finding the biggest common factor. For example, the polynomial $\sqrt{3xy - 24x^2 - 7y + 56x}$ has no larger common factor. In this case we can try to search the polynomial for factors that are common in some of the terms. Then we can attempt a method known as grouping. Take the polynomial and divide it into two groups. We have $\sqrt{3xy - 24x^2 - 7y + 56x} = \sqrt{(3xy - 24x^2) + (-7y + 56x)}$ Now check each group for any common factors. In the name $\sqrt{(3xy - 24x^2)}$ we see that there is a common factor $\sqrt{3x}$. We take this common term into account to take $\sqrt{3x(y - 8x)}$. By checking the second name $\sqrt{(-7y + 56x)}$ we see that $\sqrt{(-7)}$ is a common factor. Factor out to take $\sqrt{(-7)(y - 8x)}$. Then our polynomial becomes $\sqrt{3xy - 24x^2 - 7y + 56x} = \sqrt{(3xy - 24x^2) + (-7y + 56x)} = \sqrt{3x(y - 8x) - 7(y - 8x)}$ In effect, we have created a new larger common factor of this polynomial... $\sqrt{(y - 8x)}$. The factor from the two conditions to obtain $\sqrt{3x(y - 8x) - 7(y - 8x)} = \sqrt{(y - 8x)(3x - 7)}$ Finally, we see that the correct factorization of the original polynomial is $\sqrt{3xy - 24x^2 - 7y + 56x} = \sqrt{(y - 8x)(3x - 7)}$ Always check your work to see that the factorization is true. We have just been taken into account by the grouping! Let's try another example: Consider the polynomial $\sqrt{120uv + 192u + 100v + 160}$ Before we try to factor by grouping, we see that there is a factor $\sqrt{4}$ common to each term in this polynomial. We factor out and have $\sqrt{120uv + 192u + 100v + 160} = 4\sqrt{30uv + 48u + 25v + 40}$ Now we are trying the grouping method. Split the polynomys into two groups. $\sqrt{4(30uv + 48u + 25v + 40)} = 4\sqrt{(30uv + 48u) + (25v + 40)}$ Check for a common factor in the first group $\sqrt{(30uv + 48u)}$. Factor out to obtain $\sqrt{6u(5v + 8)}$. Check for a common factor in the second group $\sqrt{(25v + 40)}$. , our polyonal factors such as: $\sqrt{120uv + 192u + 100v + 160} = 4\sqrt{30uv + 48u + 25v + 40}$ $\sqrt{4[(30uv + 48u) + (25v + 40)]}$ $\sqrt{4[6u(5v + 8) + 5(5v + 8)]}$ You catch the common factor we have created; it is $\sqrt{(5v + 8)}$ If you get over it and $\sqrt{4[6u(5v + 8) + 5(5v + 8)]} = 4\sqrt{(5v + 8)(6u + 5)}$ then our final factorization is $\sqrt{120uv + 192u + 100v + 160} = 4\sqrt{(5v + 8)(6u + 5)}$ Below you can download some free math and practice worksheets. Practice. Practice.

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