

NCERT Exercise Solutions for Class 8 Mathematics Chapter 8 Algebraic Expressions and Identities with Class 8 Maths Chapter 8 Try these solution in Hindi and English Medium for session 2025-26. According to latest NCERT books for CBSE 2025-26, there are four exercises in chapter 8 of 8th math. NCERT Textbook Solutions for Class 8 Mathematics Chapter 8, Algebraic Expressions and Identities, provide a clear explanation of fundamental concepts and practice questions. Students can find detailed solutions to exercises like Class 8 Maths NCERT Exercise 8.1, which help build a strong foundation in algebra. These NCERT Class 8 Math Algebraic Expressions resources include stepby-step guidance for solving complex equations. NCERT Exercise Solutions for Class 8 Maths Chapter 8 For those preparing for exams, Class 8 Mathematics Chapter 8 Main Important Questions and NCERT Math Solutions PDF offer great value for revision. Notes on Algebraic Expressions and Identities NCERT Mathematics Class 8 are available to simplify challenging concepts, ensuring that students can master the topic with ease. The availability of NCERT Class 8 Mathematics of completing assignments. Students often find Algebraic Identities in Class 8 Mathematics challenging, but NCERT Maths Chapter 8 Revised Solutions simplify this topic with concise explanations. By referring to Class 8 Maths Chapter 8 Exercise Solutions, students can solve tricky problems systematically. NCERT Class 8 Math Exercise Chapter 8 Exercise Solutions, students can solve tricky problems systematically. NCERT Class 8 Math Exercise Chapter 8 Exercise Solutions, students can solve tricky problems systematically. comprehensive understanding, students can refer to Algebraic Expressions and Identities Notes. These notes are a great resource for quick revisions before exams. The Class 8 Mathematics Assignment Chapter 8 NCERT Best Solutions PDF is especially helpful for practicing algebraic expressions and identities at home. Algebraic Expressions and Identities Class 8 Important Questions cover critical topics often asked in exams. Accessing free PDF downloads of these solutions ensures students can study without barriers, improving their overall performance in math. Important Points for Class 8 Maths Chapter 8 Algebraic Expressions and IdentitiesLearn the basic components of algebraic expressions, including terms, factors and coefficients. Understand how to add, subtract, and multiply algebraic expressions effectively. Focus on the use of identities to simplify and solve problems. Practice solving word problems involving algebraic expressions. Review key examples and exercises from NCERT Solutions for comprehensive preparation.DayTopicActivitiesResourcesDay 1Introduction to Algebraic ExpressionsRead theory and solve examplesNCERT Exercise 8.1Day 3Multiplication of Algebraic ExpressionsSolve problems and review notesNCERT Exercise 8.2Day 4Identities and ApplicationsUnderstand examples and solve questionsNCERT Exercise 8.3Day 5Revision and Doubt ClearingReview all exercises, focus on weak areasNCERT Solutions, Teacher guidanceFor thorough exam preparation, NCERT Class 8 Mathematics Textbook Chapter 8 PDF Download resources are essential. These materials cover all aspects of Algebraic Expressions and Identities, from basic concepts to advanced problem-solving. Students can rely on Class 8 Math Book Exercise Chapter 8, Algebraic Expressions and Identities, also include notes that simplify learning for students who need additional support. Online access to Class 8 Mathematics Worksheet Chapter 8 Solutions and Identities Class 8 NCERT Modified Solutions, students ensure a solid grasp of key mathematical concepts, preparing them to excel in their exams. Class: 8MathematicsChapter 8:Algebraic Expressions and IdentitiesNumber of Exercises: 4 (Four)Study Material: Exercises Questions SolutionMode of Content: Text and VideosAcademic Session: Year 2025-26Medium: Hindi and English MediumClass VIII Mathematics Exercise 8.1, Exercise 8.2, Exercise 8.3 and Exercise 8.4 in English and Hindi Medium updated for new academic session. Download for offline use. NCERT (Solutions 2025-26 are updated for the new academic session based on updated NCERT Books. Download options for Hindi and English Medium are given here. Class 8 Maths Chapter 8 Algebraic Expressions and Identities all exercises in English Medium are given here. latest CBSE Syllabus 2025-26. 297 x 303 = (300 3) x (300 + 3) = 300^2 3^2 [Using (a b)(a + b) = a^2 b^2] = 90000 9 = 89991 78 x 82 = (80 2) x (80 + 2) = 80^2 2^2 [Using (a b)(a + b) = a^2 b^2] = 6400 4 = 6396 In Chapter 8 Algebraic Expression and Identities, we have to learn about the fundamental terms like factors, coefficients, monomial, binomial, trinomial and all other polynomials, like and unlike terms in an algebraic expression, additions and subtractions of two or three monomial or binomial with a polynomials. Simplification of a monomial or binomial with a polynomial with the some standard identities: 1. (a b) = a 2ab + b2. (a + b) = a + 2ab + b3. (a + b)(a b) = a bWhat does the NCERT Solutions for Class 8 Mathematics Chapter 8, Algebraic Expressions and Identities, cover essential topics such as algebraic expressions, identities and their applications. These solutions provide detailed explanations for exercises like Class 8 Maths NCERT Textbook Exercise 8.1, helping students understand the concepts step by step. The Algebraic Expressions and Identities Class 8 Math Notes simplify complex topics, while the Class 8 Mathematics Chapter 8 Important Questions focus on exam-oriented problems. With resources like NCERT Maths Chapter 8 Solutions and downloadable PDFs, students can access study material anytime and strengthen their understanding of Algebraic Expression, common identities are required. Taking common helps to make the factors of expressions and simplify the factors of two. To understand the algebraic expression in the simplest format, we must remember almost all the identities. The Class 8th Mathematics NCERT Textbook Chapter 8 Solutions to Algebraic Expressions and Identities Class 8 Important Questions, ensuring students focus on critical areas of the syllabus. NCERT Class 8 Maths Book Chapter 8 PDF download option offers convenience, allowing learners to study offline. These solutions clarify tricky concepts in Algebraic Identities and provide ample practice material. By using NCERT Math Chapter 8 Solutions regularly, students can enhance their problem-solving skills and perform well in exams. You can find Algebraic Expressions and Identities Class 8 Mathematics Chapter 8 Solutions Free PDF available for download. These notes summarize key concepts from the NCERT Class 8 Math Algebraic Expressions and Identities Class 8 Mathematics Chapter 8 Solutions Free PDF available for download. syllabus, providing quick and easy revision material. They cover essential topics like algebraic identities, simplifying equations and solving complex and Class 8 Math Chapter 8 Important Questions, which are ideal for practicing before exams. With these resources, students can confidently tackle questions on Algebraic Expressions. NCERT Mathematics Chapter 8 Solutions are unique because they offer a step-by-step approach to solving problems in Algebraic Expressions and Identities. These solutions focus on breaking down difficult topics like Class 8 Maths NCERT Book Exercise 8.1 into simpler steps, making it easier for students to grasp concepts. The Class 8 Math Exercise Chapter 8 NCERT Solutions PDF also includes practice questions, notes and explanations of Algebraic Identities. With Class 8 Math Exercise Chapter 8 Solutions Free PDF downloads available, students to grasp concepts. guidance helps students excel in exams and understand algebra effectively. You can access 8 Mathematics Chapter 8 Solutions online through educational platforms like Tiwari Academy that offer NCERT resources. The NCERT resources. The NCERT resources of the solutions, making it convenient for offline study. These online resources cover Algebraic Expressions and Identities Class 8 NCERT Solutions, including notes, exercises, and Class 8 Maths Chapter 8 Important Questions. Whether youre preparing for exams or revising Algebraic Identities, NCERT Math Complete Chapter 8 Solutions ensure comprehensive coverage of the syllabus. Studying online is a great way to stay flexible and efficient. Share copy and redistribute the material for any purpose, even commercially. The licensor cannot revoke these freedoms as long as you follow the license terms. Attribution You must give appropriate credit, provide a link to the license, and indicate if changes were made. You may do so in any reasonable manner, but not in any way that suggests the licenser, and indicate if changes were made a link to the licenser endorses you or your use. as the original. No additional restrictions You may not apply legal terms or technological measures that legally restrict others from doing anything the license permits. You do not have to comply with the license for elements of the material in the public domain or where your use is permitted by an applicable exception or limitation . No warranties are given. The license may not give you all of the permissions necessary for your intended use. For example, other rights such as publicity, privacy, or moral rights may limit how you use the material. CBSE syllabus outlines the topics that will be covered in the exam, helping students focus on whats important and avoid wasting time on irrelevant material. CBSE Class 8 Notes are important for students who want to prepare effectively for the exam. They are also helpful in... The Central Board of Education (CBSE) administers the class 8 exam, a prerequisite for all NCERT-based schools to be affiliate... The NCERT Solutions for Class 8 provide systematically well-structured and very explanatory answers to all the questions included in NCERT Class 8 textbooks. These...CBSE is a national-level board of education, and is managed by the Gover...Mathematics is the study of patterns, structure, and relationships, rooted in fundamental practices like counting... NCERT Solutions for Class 8 Maths Chapter 9 Algebraic Expressions and Identities Exercise 9.1Ex 9.1 Class 8 Maths Question 1. Identify the terms, their coefficients for each of the following expressions.(i)  $5xyz2 3zy(ii) 1 + x + x2(iii) 4x2y2 4x2y2z2 + z2(iv) 3 pq + qr rp(v) ((frac { x } { 2 })) + ((frac { y } { 2 })) + ((f$ MathsQuestion 2. Classify the following polynomials as monomials, binomials, trinomials. Which polynomials do not fit in any of these three categories? x + y, 1000,  $x + x^2 + x^3 + x^4$ , 7 + y + 5x,  $2y 3y^2$ ,  $2y 3y^2 + 4y^3$ , 5x 4y + 3xy,  $4z 15z^2$ , ab + bc + cd + da, pqr,  $p2q + pq^2$ , 2p + 2qSolution: Ex 9.1 Class 8 MathsQuestion 3. Add the following: (i) ab bc, c a + acWe have (a b + ab) + (b c + bc) + (c a + ac) (Adding all the terms) = a b + ab + b c + ac (a a) + (b b) + (c c) + ab + bc + ac (a a) + (b b) + (c c) + ab + bc + ac (collecting all the terms) = a b + ab + bc + ac (collecting all the terms together) = 0 + 0 + 0 + ab + bc + ac (a a) + (b b) + (c c) + ab + bc + ac (collecting all the terms together) = 0 + 0 + 0 + ab + bc + ac (collecting all the terms) = a b + ab + bc + ac (collecting all the terms) =Given: 12 + m2, m2 + n2, n2 + 12, 2lm + 2mn + nlBy arranging the like terms in the same column, we have Thus, the sum of the given expressions is 2(12 + m2 + n2 + lm + mn + nl)Ex 9.1 Class 8 MathsQuestion 4.(a) Subtract 4a 7ab + 3b + 12 from 12a 9ab + 5b 3(6) Subtract 3xy + 5yz 7zx from 5xy 2yz 2zx + 10xyz(c) Subtract 4p2q 3pq + 5pq2 8p + 5pq2 8p + 12 from 12a 9ab + 5b 3(6) Subtract 3xy + 5yz 7zx from 5xy 2yz 2zx + 10xyz(c) Subtract 4p2q 3pq + 5pq2 8p + 5pq2 8p + 12 from 12a 9ab + 5b 3(6) Subtract 3xy + 5yz 7zx from 5xy 2yz 2zx + 10xyz(c) Subtract 4p2q 3pq + 5pq2 8p + 5pq2 8p + 12 from 12a 9ab + 5b 3(6) Subtract 3xy + 5yz 7zx from 5xy 2yz 2zx + 10xyz(c) Subtract 4p2q 3pq + 5pq2 8p + 5pq2 8p + 12 from 12a 9ab + 5b 3(6) Subtract 3xy + 5yz 7zx from 5xy 2yz 2zx + 10xyz(c) Subtract 4p2q 3pq + 5pq2 8p + 5pq2 8p + 12 from 12a 9ab + 5b 3(6) Subtract 3xy + 5yz 7zx from 5xy 2yz 2zx + 10xyz(c) Subtract 4p2q 3pq + 5pq2 8p + 5pq2 8p + 12 from 12a 9ab + 5b 3(6) Subtract 3xy + 5yz 7zx from 5xy 2yz 2zx + 10xyz(c) Subtract 4p2q 3pq + 5pq2 8p + 5pq2 8p + 12 from 12a 9ab + 5b 3(6) Subtract 3xy + 5yz 7zx from 5xy 2yz 2zx + 10xyz(c) Subtract 4p2q 3pq + 5pq2 8p + 5pq2 8p + 12 from 12a 9ab + 5b 3(6) Subtract 3xy + 5yz 7zx from 5xy 2yz 2zx + 10xyz(c) Subtract 4p2q 3pq + 5pq2 8p + 127g 10 from 18 3p 11g + 5pg 2pg2 + 5p2gSolution:(a) Arranging the like terms column-wise, we have[Change the signs of all the terms of lower expressions and then add](b) Arranging the like terms column-wise, we have[Change the signs of all the terms of lower expressions and then add](b) Arranging the like terms column-wise, we have[Change the signs of all the terms of lower expressions and then add](b) Arranging the like terms column-wise, we have[Change the signs of all the terms of lower expressions and then add](b) Arranging the like terms column-wise, we have[Change the signs of all the terms of lower expressions and then add](b) Arranging the like terms column-wise, we have[Change the signs of all the terms of lower expressions and then add](b) Arranging the like terms column-wise, we have[Change the signs of all the terms of lower expressions and then add](b) Arranging the like terms column-wise, we have[Change the signs of all the terms of lower expressions and then add](c) Arranging the like terms column-wise, we have[Change the signs of all the terms of lower expressions and then add](b) Arranging the like terms column-wise, we have[Change the signs of all the terms column-wise, we have[Change the signs of all the terms column-wise, we have[Change the signs of all the terms column-wise, we have[Change the signs of all the terms column-wise, we have[Change the signs of all the terms column-wise, we have[Change the signs of all the terms column-wise, we have[Change the signs of all the terms column-wise, we have[Change the signs of all the terms column-wise, we have[Change the signs of all the terms column-wise, we have[Change the signs of all the terms column-wise, we have[Change the signs of all the terms column-wise, we have[Change the signs of all the terms column-wise, we have[Change the signs of all the terms column-wise, we have[Change the signs of all the terms column-wise, we have[Change the signs of all the terms column-wise, we have[Change the signs of all the terms column-wise, we have[Change the signs of all the terms of lower expressions and then add The terms are p2q 7pq2 + 8pq 18q + 5p + 20 More CBSE Class 8, Class 6, Class 7, Class 8, Class 7, Class 8, Class 9, Class 10, Class 11 and Class 12, IIT JEE prep, NEET preparation and CBSE, UP Board, Bihar Board, Rajasthan Board, MP Board, Telangana Board etc NCERT solutions for CBSE and other state boards is a key requirement for students. It has helped students get under AIR 100 in NEET & IIT JEE. Get PDF and video solutions of IIT-JEE Mains & Advanced previous year papers, NEET previous year papers, NCERT books for classes 6 to 12, CBSE, Pathfinder Publications, RD Sharma, RS Aggarwal, Manohar Ray, Cengage books for boards and competitive exams. Doubtnut is the perfect NEET and IIT JEE previous years papers, along with chapter wise NEET MCQ solutions. Get all the study material in Hindi medium and English medium for IIT JEE and NEET preparationTutrsStringent selection, robust training, and continuous upskilling. To match your childs unique personality and learning style. Exam prep, Homework help, Advanced learning, and Remedial support. Helping 200,000+ students succeed!Received prestigious President's Education Awards Program from the President of US. Tops her class with an outstanding score of 77.5/80. Received prestigious Pradhan Mantri Rashtriya Bal Puraskar from the Prime Minister of India. Got Level 5 in the STAAR exam at the Renaissance Institute for Competitive Exams. Secured Rank 1 at SOF IMO Level 1 2023, by scoring an outstanding 100/100! Received prestigious President's Education Awards Program from the President of US. Tops her class with an outstanding score of 77.5/80. Received prestigious President's Education Awards Program from the President of US. Competitive Exams.Secured Rank 1 at SOF IMO Level 1 2023, by scoring an outstanding 100/100! Received prestigious President's Education Awards Program from the President of US. Tops her class with an outstanding score of 77.5/80. Received prestigious President's Education Awards Program from the President's Education Awards Program from the President of US. STAAR exam at the Renaissance Institute for Competitive Exams. My son started Cuemath in Grade 1 & now he is in Grade 7. All these years, I have been reassured for math subject! I'm sure he will continue with Cuemath has helped my kids learn math concepts and practice them in an online setting. It is a great online platform with 1:1 learning experience. Our daughter was losing interest in math. After 4-5 classes, I could see her asking for homework. She started liking math again and has now developed a lot of interest. Cuemath keeps introducing new methods, systems, & make it interesting for learners. way of teaching.My son has been taking coaching from Cuemath and is showing consistent improvement. It is mainly because of the standard curriculum, mentoring, supervision, & teaching.Have been a great platform with multiple avenues to augment my 8yr olds math skills. Good support from teacher too!My son started Cuemath in Grade 1 & no he is in Grade 7. All these years, I have been reassured for math subject! I'm sure he will continue with Cuemath till it serves!Cuemath has helped my kids learn math concepts and practice them in an online setting. It is a great online platform with 1:1 learning experience.Our daughter was losing interest in math. After 4-5 classes, I could see her asking for homework. She started liking math again and has now developed a lot of interest. Cuemath keeps introducing new methods, systems, & make it interesting for learners. Unlike the traditional teaching system, it has innovated a different way of teaching. My son has been taking coaching from Cuemath and is showing consistent improvement It is mainly because of the standard curriculum, mentoring, supervision, & teaching. Have been a great platform with multiple avenues to augment my 8yr olds math skills. Good support from teacher too! We had a great experience with Cuemath. He started in 2021 and was quite weak but since joining Cuemath he has been getting better grades.Cuemath's app facilitates teacher even locally.Private 1-to-1 tutoring that just works1-3 classes per week, with hassle-free scheduling.Customized learning plan for every child.Get regular insights on your child's progress.What is the frequency and duration of your classes?Typically, the number of classes is two per week for grades K to 8, and three per week for high school. But the schedule is flexible, according to your childs requirements and availability. Also, each class runs for 55 minutes, extendable to an hour. What devices do I need for attending your classes?A desktop or laptop computer that supports video calling is necessary for attending our classes. We also highly recommend a writing tablet for the best learning experience. My child has specific learning requirements. Is your program flexible enough? Absolutely. Our tutors will always customize the classes according to what your child needs - be in homework help, exam or test prep, remedial support for past gaps, or advanced learning. Can your tutors teach the topics covered in my childs school or curriculum? Our tutors are trained to teach according to various curricula across countries. Further, we have a fully customizable curriculum, tailored to your childs needs. Can my child join anytime of the year?Yes. Our tutors always customize the learning plan according to your childs needs, and the time left in the current academic year. If you wish to cover additional topics in the same time, you can always schedule extra classes. What if I dont like the tutor?In the rare case that happens, please raise a ticket with our helpdesk. Well be happy to diagnose the issue, and find you a different tutor that aligns better with your childs needs. What if I do not like your classes after I enroll? Will I get my money back? We have a no questions asked refund policy. If youre unhappy with the experience, you can cancel anytime for a full refund of the unused classes. What happens if my child misses after I enroll? Cuemath class?We have a flexible leave policy that allows for both planned and unplanned leaves. Just keep your tutor informed. How can I keep track of my child's maths progress?We have a dedicated parent app, that lets you track the progress of your child, and also lets you connect with their tutor. How do I enroll for your classes?Please tap on the Get Started button. Well ask you a few questions about your child to understand their needs better. Once we receive the details, our admissions counselor will call you to match your child with the right tutor, and schedule a free trial class as per your availability. If you like the experience, you can choose a plan and make the payment to begin your classes. Affordable and personalized. Try a class for free. Our learning resources for the chapter, Algebraic Expressions and Identities in Mathematics Class 8th chapter 8 are designed to ensure that you grasp this concepts, our engaging animated videos, practice questions and notes offer you the best of integrated learning with interesting explanations, combining constants and variables. It covers addition, subtraction, multiplication, and factorization of expressions. Students learn to simplify expressions and understance addition, subtraction, multiplication, and factorization of expressions. identities like (a+b) = a+2ab+b. This foundation aids in solving equations and real-life problems. Algebraic Expressions and Identities form a crucial part of Class 8 Mathematics, covering fundamental concepts that lay the groundwork for advanced algebra. This chapter delves into expressions, terms, coefficients, and identities, offering a comprehensive understanding of how to manipulate and simplify algebraic expressions. In algebra, we use letters (variables) and numbers (constants) to represent values. These variables can take various values and when combined with constants using arithmetic operations, they form algebraic expressions. Examples include: Expressions can change their values depending on the values assigned to their variables. For x = 1 and y = 1, the expression xy + 2 equals 3. For x = 100 and y = 2, the expression xy + 2 equals 202. An algebraic expression comprises terms, which are individual components separated by addition or subtraction. Terms themselves can be formed by multiplying constants and variables, known as factors. For example: In the expression 2a + 4ab + 5a(b + c), the terms are 2a, 4ab, and 5a(b + c). The factors for these terms are 2 and a; 4, a and b; 5, a and (b + c), respectively. The numerical part of a term is called its coefficient. For example: In the term 5x, the coefficient is 5. In the term xy, the coefficient is 1. In the term 4z, the coefficient is 1. In the term 4z, the coefficient is 5. In the term xy, the coefficient is 1. In the term 4z, the coefficient is 1. In the term 5x, the coefficient is 5. In the term 4z, the coefficient is 5. In the term 5x, the coeff Trinomial: An expression with three terms (e.g., 2x + y + 2, 17 xyz 17). Terms with the same variables are called like terms and can be combined. Those with different variables are called unlike terms. To add algebraic expressions, align the like terms and then sum them. For example: Add -8x + 2yz 11 and -2x + 9yz 1: (3+2)x + (2+9)yz + (9+3) = 5x + 11yz 6 Similar to addition, but subtract the corresponding terms: Subtract 2x + 9yz from 5x + 11yz 6 Similar to addition, but subtract the corresponding terms: Subtract 2x + 9yz from 5x + 11yz 6 Similar to addition, but subtract the corresponding terms: Subtract 2x + 9yz from 5x + 11yz 6 Similar to addition, but subtract 2x + 9yz from 5x + 11yz 6 Simila 16abc 13ab 9abc = 117abc Monomial Polynomial: Use the distributive property to expand the product.xyz(x + z) = xyz + xyz Polynomial multiplies each term in the other. In chapter 8 of class 8, Algebraic Expressions and Identities we have learned about Algebraic Expressions, and now we will learn about Identities. Identities are equations that hold for all values of the variables. Important standard identities include: (a+b) = a + 2ab + b (a+b)(ab) = a + 2ab + b (a+b)foundation in algebra, crucial for tackling more complex mathematical problems in future studies. Understanding these concepts enables students to solve equations, factorize expressions, and work with polynomials, laying the groundwork for advanced algebraic techniques. this article by adding citations to reliable sources. Unsourced material may be challenged and removed. Find sources: "Algebraic expression using basic operations. In mathematics, an algebraic expression is an expression built basic operations." up from constants (usually, algebraic numbers), variables, and the basic algebraic operations: addition (+), subtraction (), division (), whole number powers, and roots (fractional powers).[1][2][3][bettersourceneeded]. For example, 3 x 2 2 x y + c {\displaystyle 3x^{2}-2xy+c} is an algebraic expression. Since taking the square root is the same as raising to the power 1/2, the following is also an algebraic expression: 1 x 2 1 + x 2 {\displaystyle {\sqrt {\frac {1-x^{2}}}} An algebraic expressions may be solutions. If you restrict your set of constants to be numbers, any algebraic expression can be called an arithmetic expression. However, algebraic expressions can be used on more abstract objects such as in Abstract algebraic expression are called Algebraic numbers. [contradictory] By contrast, transcendental numbers like and e are not algebraic, since they are not derived from integer constants and algebraic operations. Usually, is constructed as a geometric relationship, and the definition of e requires an infinite number of algebraic operations. Usually, is constructed as a geometric relationship, and the definition of e requires an infinite number of algebraic operations. has its own terminology to describe parts of an expression:1 Exponent (power), 2 coefficient, 3 term, 4 operator, 5 constant, x, y {\displaystyle a,b,c} ) are typically used to represent constants, and those toward the end of the alphabet (e.g. x, y {\displaystyle a,b,c}) are typically used to represent constants, and those toward the end of the alphabet (e.g. x, y {\displaystyle a,b,c}) are typically used to represent constants, and those toward the end of the alphabet (e.g. x, y {\displaystyle a,b,c}) are typically used to represent constants, and those toward the end of the alphabet (e.g. x, y {\displaystyle a,b,c}) are typically used to represent constants, and those toward the end of the alphabet (e.g. x, y {\displaystyle a,b,c}) are typically used to represent constants, and those toward the end of the alphabet (e.g. x, y {\displaystyle a,b,c}) are typically used to represent constants, and those toward the end of the alphabet (e.g. x, y { {\displaystyle x,y} and z {\displaystyle z} are used to represent variables.[4] They are usually written in italics.[5]By convention, terms with the highest power (exponent), are written to the left of x {\displaystyle x} . When a coefficient is one, it is usually omitted (e.g. 1 x 2 {\displaystyle x}  $1x^{2}$  is written x 2 {\displaystyle  $x^{2}$  ).[6] Likewise when the exponent (power) is one, (e.g.  $3 \times 1$  {\displaystyle  $3x^{1}$  is written  $3 \times \{0\}$  is written  $3 \times \{0\}$  is always 1 (e.g.  $3 \times 0$  {\displaystyle  $3x^{0}$  } is written  $3 \times \{0\}$  is always 1 (e.g.  $3 \times 0$  {\displaystyle  $3x^{0}$  } is written  $3 \times \{0\}$  is written  $3 \times \{0\}$  is always 1 (e.g.  $3 \times 0$  {\displaystyle  $3x^{0}$  } ).[6] Likewise when the exponent (power) is one, (e.g.  $3 \times 1$  {\displaystyle  $3x^{0}$  } ).[7] and, when the exponent is zero, the result is always 1 (e.g.  $3 \times 0$  {\displaystyle  $3x^{0}$  } ).[7] and when the exponent is zero, the result is always 1 (e.g.  $3 \times 0$  {\displaystyle  $3x^{0}$  } ).[7] and when the exponent is zero, the result is always 1 (e.g.  $3 \times 0$  {\displaystyle  $3x^{0}$  } ).[7] and when the exponent is zero, the result is always 1 (e.g.  $3 \times 0$  {\displaystyle  $3x^{0}$  } ).[7] and when the exponent is zero, the result is always 1 (e.g.  $3 \times 0$  {\displaystyle  $3x^{0}$  } ).[7] and when the exponent is zero, the result is always 1 (e.g.  $3 \times 0$  {\displaystyle  $3x^{0}$  } ).[7] and when the exponent is zero, the result is always 1 (e.g.  $3 \times 0$  {\displaystyle  $3x^{0}$  } ).[7] and when the exponent is zero, the result is always 1 (e.g.  $3 \times 0$  {\displaystyle  $3x^{0}$  } ).[7] and when the exponent is zero, the result is always 1 (e.g.  $3 \times 0$  {\displaystyle  $3x^{0}$  } ).[7] and when the exponent is zero, the result is always 1 (e.g.  $3 \times 0$  {\displaystyle  $3x^{0}$  } ).[7] and when the exponent is zero, the result is always 1 (e.g.  $3 \times 0$  {\displaystyle  $3x^{0}$  } ).[7] and when the exponent is zero, the result is always 1 (e.g.  $3 \times 0$  {\displaystyle  $3x^{0}$  } ).[7] and when the exponent is zero, the result is always 1 (e.g.  $3 \times 0$  {\displaystyle  $3x^{0}$  } ).[7] and when the exponent is zero, the result is always 1 (e.g.  $3 \times 0$  {\displaystyle  $3x^{0}$  } ].[7] and when the exponent is zero, the result is always 1 (e.g.  $3 \times 0$  {\displaystyle  $3x^{0}$  } ].[7] and when the exponent is zero, the result is always 1 [8] The roots of a polynomial expression of degree n, or equivalently the solutions of a polynomial equation, can always be written as algebraic solution. But the AbelRuffini theorem states that algebraic solutions dc not exist for all such equations (just for some of them) if n {\displaystyle \geq } 5. See also: Rational functionGiven two polynomials P (x) {\displaystyle Q(x)} is called a rational expression or simply rational fraction.[9][10][11] A rational expression P (x) Q (x) {\textstyle {\frac {P(x)}{Q(x)}}} is called proper if deg P (x) < deg Q (x) {\displaystyle \deg P(x)go to slidego to slid expression described using its terms, and operations on the terms. For example, x + 3 can be described as "3 more than x". While a + b - 7 can be described as "7 less than the sum of a and b". How Many Terms are There in an Algebraic Expression? A term is a variable alone (or) it can be a combination of variables and constants by the operation of multiplication or division. We apply this definition to identify the terms in an algebraic expressions Useful? The algebraic expressions use variables (which take multiple multiples) in order to describe a real-life scenario. Instead of saying "The cost of the terms in an algebraic expression use variables (which take multiple multiples) in order to describe a real-life scenario. Instead of saying "The cost of the terms in an algebraic expression use variables (which take multiple multiples) in order to describe a real-life scenario. 3 pens and 4 pencils", it is simple to say 3x+4y where x and y are the costs of each pen and pencil respectively. Also, writing a real-life scenario as an expression? An algebraic expression is a combination of variables and constants. However, no equalities should be present in it. Otherwise, it will become an algebraic expression. Is 7 an Algebraic Expression? Yes, 7 is an algebraic expression? Yes, 7 is an algebraic expression? Yes, 7 is an algebraic expression? Is 7 an Algebraic expression? Yes, 7 is an algebraic expression? Yes Algebraic Expression and Equation? An algebraic expression is any number, variable, or different operations combined together, while an equal sign.Q1: The number of terms in the expression 2y - 3 + 2 - 5x are:4213Q2: Rony earns 17 dollars less than half of what John earns. If John earns p dollars, how much does Rony earn in dollars?p - 1/21/2 + p17 + (p/2)(p/2) - 17Exercise 8.1: This exercise deals with multiplication of Algebraic Expressions. Exercise deals with multiplication of Algebraic expressions. Exercise 8.2: This exercise deals with multiplication of Algebraic expressions. Exercise 4.2: This exercise deals with addition and subtraction of Algebraic expressions. Exercise 4.2: This exercise 4 Expressions, multiplying a monomial by a monomial and multiplying three or more monomials. Exercise 8.3: This exercise consists of 5 Questions and Solutions. This exercise 8.3: This exercise consists of 3 Questions and Solutions. This exercise deals with multiplying a polynomial by a polynomial, multiplying a binomial, multiplying a binomial by a trinomial.Access NCERT Solutions for Class 8 Maths chapter 8 Algebraic Expressions and IdentitiesExercise - 8.11. Add the following:(i) \${\text{ab - bc,bc - ca,ca - ab}}\$Ans:\${\text{ 12a - 9ab } 5b - 3 + b + ab + b + ab + b + ab + b + ab + b + ac +  $\{ \left\{ \left\{ \frac{2}\right\} \\ \left\{ \left\{ \frac{2}\right\} \\ \left\{ \left\{ \frac{2}\right\} \\ \left\{ \frac$  $\{ text{2} \} \{ text{2} \} \} \{ text{2} \} \{ text{2} \} \{ text{2} \} \{ text{2} \} \} \{ text{2} \} \{ text{2} \} \} \{ text{2} \} \{ text{2} \} \{ text{2} \} \} \{ text{2} \} \{ text{2} \} \} \} \{ text{2} \} \} \} \{ text{2} \} \} \} \{ text{2} \} \} \{ text{2} \} \} \{ text{2} \} \} \} \{ text{2} \} \} \{ text{2} \} \} \} \{ text{2} \} \} \{ text{2} \} \} \{ text{2} \} \} \} \} \{ text{2} \} \} \{ text{2} \} \} \} \} \} \{ text{2} \} \} \} \} \} \{ text{2} \}$  $text{2}} text{1}^{text{2}} text{1}^{text{2}} text{2}} text{2}}$  ${\frac{12a - 9ab + 5b - 3}}$  from  ${\frac{12a - 9ab + 5b - 3}}$  $10xyz\} \\ text{5xy - 2yz - 2zx + 10xyz} \\ (iii) Subtract \\ text{2xy - 7yz + 5zx + 10xyz} \\ (iii) Subtract \\ text{18 - 3p - 11q + 5pq - 2p} \\ (iii) Subtract \\ text{18 - 3p - 11q + 5pq - 2p} \\ (iii) Subtract \\ text{18 - 3p - 11q + 5pq - 2p} \\ (iii) Subtract \\ (i$  $+ 5 \} \{ \left( text{q} + 5 \right) \{ \left( text{q} + 6 + 7 - 3pq + 5p \right) \{ \left( text{q} + 6 + 7 - 3pq + 5p \right) \{ \left( text{q} + 6 + 7 - 3pq + 5p \right) \} \} \{ \left( text{q} + 6 + 7 - 3pq + 5p \right) \} \} \{ \left( text{q} + 7 + 3pq + 5p \right) \} \} \{ \left( text{q} + 7 + 3pq + 3pq + 5p \right) \} \} \{ \left( text{q} + 7 + 3pq + 3pq + 2pq \right) \} \} \} \} \} \} \} \}$ Find the product of the following pairs of monomials:(i)  $\left( \frac{4 \times p}{\frac{1}{1} + p}\right) = 28p}\right)(ii)$  ${text{p}}^2 (ii) {\det{p}^2}(ii) {text{p}^2}(ii) {text{p}^$  ${\left(\frac{1}{1}, \frac{1}{1}\right)}$  $text{2}} text{2}} text{2}}$  $length x breadth Area of 1st rectangle = p x q = pqArea of 2nd rectangle = ${\{10m \times 5n = 10 \times 10^{1} \le n = 50mn\}}$  ${(text{x}^3)} = 4 \times 3} \times \{x\} \times \{x\}$ {\text{p}}\$3. Complete the table of products.\$\dfrac{{\text{first monomial}} \to }}{{\text{first monomial}} \to }}{to }}{{}} 10xy6x2-8x2y14x3y-18x3y2-5y-10xy25y2-15x220xy2-35x2y245x2y33x26x3-15x2y9x4-12x321x4y-27x4y2-4xy-8x2y20xy2-12x3y16x2y2-28x3y245x2y3-27x4y236x3y3-63x4y381x4y44. Obtain the volume of rectangular boxes with the following length, breadth and height respectively.(i)  ${\frac{1}}{\frac{1}}{\frac{1}}}{\frac{1}}{\frac{1}}}{\frac{1}}{\frac{1}}{\frac{1}}}{\frac{1}}{\frac{1}}{\frac{1}}}{\frac{1}}{\frac{1}}{\frac{1}}}{\frac{1}}{\frac{1}}{\frac{1}}}{\frac{1}}{\frac{1}}{\frac{1}}{\frac{1}}}{\frac{1}}{\frac{1}}{\frac{1}}{\frac{1}}}{\frac{1}}{\frac{1}}{\frac{1}}{\frac{1}}}{\frac{1}}{\frac{1}}{\frac{1}}{\frac{1}}}{\frac{1}}{\frac{1}}{\frac{1}}{\frac{1}}}{\frac{1}}{\frac{1}}{\frac{1}}{\frac{1}}}{\frac{1}}{\frac{1}}{\frac{1}}{\frac{1}}{\frac{1}}{\frac{1}}}{\frac{1}}{\frac{$  $heightVolume = \{\{2p \times 8r = 64pqr\} \} (iii) \{ \det\{x\}^{(iii)} \\ text\{2\}\} \\ text\{2\} \\ text\{2\}\} \\ text\{2\} \\ text\{2\} \\ text\{2\}\} \\ text\{2\} \\$  $\{ \left( x, y, z, z \} \right)$  $\{ text{a}^{text{a}}^{te$  $times {\text{0}}^{(v) {\tex$  $\{ text{a} \ t$  $\{ text{a} ^{text{a}} (text{a} ^{text{a}} (t$ 9}} \right){\text{ - 36a}} (v) \$\\text{ - 36a}} (v  $First expressionSecond expressionProductab+c+d-x+y-55xy-p{(text{2}}}{text{2}}{text$  $expressionProductab+c+dab+ac+adx+y-55xy5x2y+5xy2-25xyp${\text{2}}}{(text{p}^{(text{2})}${(text{2})}${(text{2})}${(text{2})}}{(text{2})}{(text{2})}}{(text{2})}}{(text{2})}{(text{2})}}{(text{2})}{(text{2})}}{(text{2})}{(text{2})}{(text{2})}{(text{2})}}{(text{2})}{(text{2})}{(text{2})}{(text{2})}}{(text{2})}{$  $\{ text{2} \} \right) \left( \{ text{2} \} \right) \left( \{ text{2} \} \right) \left( \{ text{2} \} \right) \right) \left( \{ text{2} \} \right) \left( \{ text{2} \} \right) \left( \{ text{2} \} \right) \right) \left( \{ text{2} \} \right) \left( \{ text{2} \} \right) \right) \left( \{ text{2} \} \right) \right) \left( \{ text{2} \} \right) \left( \{ text{2} \} \right) \right) \left( \{ text{2} \} \right) \right) \left( \{ text{2} \} \right) \left( \{ text{2} \} \right) \right) \left( \{ text{2} \} \right) \left( \{ text{2} \} \right) \right) \left( \{ text{2} \} \right) \right) \left( \{ text{2} \} \right) \left( \{ text{2} \} \right) \right) \left( \{ text{2} \} \right) \left( \{ text{2} \} \right) \right) \left( \{ text{2} \} \right) \left( \{ text{2} \} \right) \right) \left( text{2} \right) \left( \{ text{2} \} \right) \left( text{2} \} \right) \right) \left( text{2} \right) \right) \left( text{2} \right$  $times x times y times } { text{2}} { text{$  $text{3}} \right(text{3}} \left(text{3}} \right) \left(text{3} \right) \left(text{3}} \right) \left(text{3} \right) \left(text{3}} \right) \left(text{3} \right) \left(text{3$  ${text{3}}{(text{q}}^{tex$  ${\frac{x + 3}}$  $\frac{12}}{$  $\{ text{2}} \\ text{2} \} \\ text{2} \\ te$  $15} \\ \\ text{2}} \\ text{a} \\ text{$  $1} Ans: \{ \left\{ \left\{ \frac{1}{1} \right\} \left\{ \left\{ \frac{1}{1} \right\} \right\} \\ \left\{ \left\{ \frac{1}{1} \right\} \right\} \\ \left\{ \frac{1}{1} \right\} \\ \left\{ \frac{$  $\{ text{a}^{text{2}} \\ text{a}^{tex}^{tex}}^{text{a}^{text{a}^{text{a}^{text{a}^{text{a}^{text{a}^{t$  $(-),{\frac{}}{\frac{}}{\frac{1}^{2}}(i)$  Subtract  $(-),{\frac{}}{\frac{1}^{2}}(i)$  Subtract  $(-),{\frac{1}^{2}}(i)$  $+ 4 \left\{ \left\{ \left\{ - 3 \right\} \left\{ - 3 \right\} \left\{ \left\{ - 3 \right\} \left\{ \left\{ - 3 \right\} \left\{ - 3 \right\} \left\{ \left\{ - 3 \right\} \left\{ - 3 \right\} \left\{ \left\{ - 3 \right\} \left\{ \left\{ - 3 \right\} \left\{ - 3 \right\} \left\{ \left\{ - 3 \right\} \left\{ \left\{ - 3 \right\} \left\{ - 3 \right\} \left\{ \left\{ - 3 \right\} \left\{ \left\{ - 3 \right\} \left\{ - 3 \right\} \left\{ \left\{ - 3 \right\} \left\{ \left\{ - 3 \right\} \left\{ - 3 \right\} \left\{ \left\{ - 3 \right\} \left\{ - 3 \right\} \left\{ - 3 \right\} \left\{ \left\{ - 3 \right\} \left\{ - 3 \right\} \left\{ \left\{ - 3 \right\} \left\{ - 3 \right\}$  $\left\{ \left( y - 3 \right) \right\} \left\{ \left( y - 3 \right) \right\} \left\{ \left( y - 3 \right) \right\} \right\} \left\{ \left( y - 3 \right) \right\} \left\{ \left( y - 3 \right) \right\} \left\{ \left( y - 3 \right) \right\} \right\} \left\{ \left( y - 3 \right) \right\} \left\{ \left( y - 3 \right) \right\} \right\} \left\{ \left( y - 3 \right) \right\} \left\{ \left( y - 3 \right) \right\} \right\} \left\{ \left( y - 3 \right) \right\} \left\{ \left( y - 3 \right) \right\} \left\{ \left( y - 3 \right) \right\} \right\} \left\{ \left( y - 3 \right) \right\} \left\{ \left( y - 3 \right) \right\} \left\{ \left( y - 3 \right) \right\} \right\} \left\{ \left( y - 3 \right) \right\} \right\} \left\{ \left( y - 3 \right) \left\{ \left( y -28y + 32 (By adding like terms) \\ (iii) \\ (text{.5l + 0} \\ text{.5l + 0} \\$  $\{ text{2} \} \right] \left\{ text{2} \} \left\{ text{2} \} \right\} \left\{ text{2} \} \right\} \left\{ text{2} \} \left\{ text{2} \} \right\} \left\{ text{2} \} \right\} \left\{ text{2} \} \left\{ text{2} \} \right\} \left\{ text{2} \} \left\{ text{2} \} \right\} \left\{ text{2} \} \right\} \left\{ text{2} \} \right\} \left\{ text{2} \} \left\{ text{2} \} \right\} \left\{ text{2} \} \right\} \left\{ text{2} \} \left\{ text{2} \} \right\} \left\{ text{2} \} \right\} \left\{ text{2} \} \left\{ text{2} \} \right\} \left\{ text{2} \} \right\} \left\{ text{2} \} \left\{ text{2} \} \right\} \left\{ text{2} \} \right\} \left\{ text{2} \} \left\{ text{2} \} \left\{ text{2} \} \right\} \left\{ text{2} \right\} \left\{ text{2} \right\} \left\{ text{2} \right\} \left\{ text{2} \} \left\{ text{2} \right\} \left$  $\{ text{2} \} t$  $= 15 + 5x - 6x - 2 \left\{ \left\{ x - 7y - y - 7y - y \right\} \right\}$  $= 15 + 5x + 6x + 2} \{ (text{x} + 2) \} \{ (text{x} + 2) \}$  $\{ text{s}^3 \{ text{c + b} (c - d) + a (c + d) + b (c - d) + b ($  $\{ \left( x + 2xy - 2y \right) \\ \left( x$  $\{\{text\{y\}^2\}\{text\{x\}^2\}\{texx\{x$  $\{ \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \} \}^2 \} \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \} \}^2 \} \{ \{ \{ \} \}^2 \} \{ \{ \{ \} \}^2 \} \{ \{ \{ \} \}^2 \} \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \} \}^2 \} \{ \{ \{ \} \}^2 \} \{ \{ \{ \} \}^2 \} \{ \{ \{ \} \}^2 \} \{ \{ \{ \} \}^2 \} \{ \{ \{ \} \}^2 \} \{ \{ \{ \} \}^2 \} \{ \{ \{ \} \}^2 \} \{ \{ \{ \} \}^2 \} \{ \{ \{ \} \}^2 \} \{ \{ \{ \} \}^2 \} \{ \{ \{ \} \}^2 \} \{ \{ \{ \} \}^2 \} \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \} \} \} \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \} \} \} \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \} \} \} \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \} \} \} \{ \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \} \} \} \{ \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \} \} \} \{ \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \} \} \} \{ \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \{ \{ \} \}^2 \} \} \{ \{ \{ \{ \{ \{ \} \}^2 \} \{ \{ \{ \{ \{ \{ \} \}$ }}{\text{b}}^2}{\text{-}}{\text{c}}^2}{\text{-}}{\text{c}}^2}{\text{-}}{\text{c}}^2}{\text{-}}{\text{c}}^2}{\text{-}}{\text{c}}^2}{\text{-}}{\text{c}}^2}{\text{-}}{\text{c}}^2}{\text{-}}{\text{c}}^2}{\text{-}}{\text{c}}^2}{\text{-}}{\text{c}}^2}{\text{-}}{\text{c}}^2}{\text{-}}{\text{c}}^2}{\text{-}}{\text{c}}^2}{\text{-}}{\text{c}}^2}{\text{c}}{\text{c}}^2}{\text{c}}{\text{c}}^2}{\text{c}}{\text{c}}^2}{\text{c}}{\text{c}}^2}{\text{c}}{\text{c}}^2}{\text{c}}{\text{c}}{\text{c}}^2}{\text{c}}{ Polynomials 8.4 Like and Unlike Terms 8.10 What is an Identity? 8.11 Standard Identities 8.12 Applying Identities 8.43 Questions with SolutionsConclusionNCERT Solutions for Maths Algebraic Expressions Class 8 Chapter 8 by Vedantu are essential for building a strong foundation in algebra. This chapter introduces you to the basics of forming and simplifying algebraic expressions, and understanding and applying various algebraic identities. In previous year exams, around 34 questions have been asked from this chapter, highlighting its significance in the overall curriculum. By thoroughly practising the problems and understanding the step-by-step solutions provided by Vedantu, you can confidently tackle algebraic expressions and identities. Other Study Material for CBSE Class 8 Maths chapter 8 Chapter-Specific NCERT Solutions for Class 8 MathsGiven below are the chapter-wise NCERT Solutions for Class 8 Maths. Go through these chapter-wise solutions to be thoroughly familiar with the concepts. Important Related Links for CBSE Class 8 Maths

Class 8 algebraic expressions solutions. What are expressions class 8 maths. How to solve algebraic expressions class 8. Algebraic expressions definition class 8. What are the formulas in algebraic expressions class 8. What are algebraic expressions used for. What are algebraic expressions.