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DayTopicActivitiesResourcesDay 1Introduction to Algebraic ExpressionsRead theory and solve examplesNCERT textbook, Class notesDay 2Addition and Subtraction of ExpressionsPractice exercisesNCERT 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 Chapter 8 Solutions Free Download to tackle Algebraic Identities confidently. 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Download Prashnavali 8.1, Prashnavali 8.2, Prashnavali 8.3 and Prashnavali 8.4 in Hindi Medium to study online or in PDF format to free 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 Solutions are given here. Class 8 Maths Chapter 8 Algebraic Expressions and Identities all exercises in English Medium as well as Hindi Medium are given below to download in PDF format. All the solutions are done properly considering the latest CBSE Syllabus 2025-26. 297 x 303= (300 3) x (300 + 3)= 300^2+3^2+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+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 expressions taking like terms aside. Multiplications of two or three monomial and the multiplication of a monomial or binomial with a polynomial. Simplification of different polynomials using various identities. The following are the some standard identities:1. (a + b) ^2= a^2 + 2ab + b^2. 2. (a + b) (a - b) = a^2 - b^2. 3. (a + b)^3 = a^3 + 3a^2b + 3ab^2 + b^3. 4. (a - b)^3 = a^3 - 3a^2b + 3ab^2 - b^3. 5. (a + b)^4 = a^4 + 4a^3b + 6a^2b^2 + 4ab^3 + b^4. 6. (a - b)^4 = a^4 - 4a^3b + 6a^2b^2 - 4ab^3 + b^4. 7. (a + b)^5 = a^5 + 5a^4b + 10a^3b^2 + 10a^2b^3 + 5ab^4 + b^5. 8. (a - b)^5 = a^5 - 5a^4b + 10a^3b^2 - 10a^2b^3 + 5ab^4 - b^5. 9. (a + b)^6 = a^6 + 6a^5b + 15a^4b^2 + 20a^3b^3 + 15a^2b^4 + 6ab^5 + b^6. 10. (a - b)^6 = a^6 - 6a^5b + 15a^4b^2 - 20a^3b^3 + 15a^2b^4 - 6ab^5 + b^6. 11. (a + b)^7 = a^7 + 7a^6b + 21a^5b^2 + 35a^4b^3 + 35a^3b^4 + 21a^2b^5 + 7ab^6 + b^7. 12. (a - b)^7 = a^7 - 7a^6b + 21a^5b^2 - 35a^4b^3 + 35a^3b^4 - 21a^2b^5 + 7ab^6 - b^7. 13. (a + b)^8 = a^8 + 8a^7b + 28a^6b^2 + 56a^5b^3 + 70a^4b^4 + 56a^3b^5 + 28a^2b^6 + 8ab^7 + b^8. 14. (a - b)^8 = a^8 - 8a^7b + 28a^6b^2 - 56a^5b^3 + 70a^4b^4 - 56a^3b^5 + 28a^2b^6 - 8ab^7 + b^8. 15. (a + b)^9 = a^9 + 9a^8b + 36a^7b^2 + 84a^6b^3 + 126a^5b^4 + 126a^4b^5 + 84a^3b^6 + 36a^2b^7 + 9ab^8 + b^9. 16. (a - b)^9 = a^9 - 9a^8b + 36a^7b^2 - 84a^6b^3 + 126a^5b^4 - 126a^4b^5 + 84a^3b^6 - 36a^2b^7 + 9ab^8 - b^9. 17. (a + b)^10 = a^10 + 10a^9b + 45a^8b^2 + 120a^7b^3 + 210a^6b^4 + 252a^5b^5 + 210a^4b^6 + 120a^3b^7 + 45a^2b^8 + 10ab^9 + b^10. 18. (a - b)^10 = a^10 - 10a^9b + 45a^8b^2 - 120a^7b^3 + 210a^6b^4 - 252a^5b^5 + 210a^4b^6 - 120a^3b^7 + 45a^2b^8 - 10ab^9 + b^10. 19. (a + b)^11 = a^11 + 11a^10b + 55a^9b^2 + 165a^8b^3 + 330a^7b^4 + 462a^6b^5 + 462a^5b^6 + 330a^4b^7 + 165a^3b^8 + 55a^2b^9 + 11ab^10 + b^11. 20. (a - b)^11 = a^11 - 11a^10b + 55a^9b^2 - 165a^8b^3 + 330a^7b^4 - 462a^6b^5 + 462a^5b^6 - 330a^4b^7 + 165a^3b^8 - 55a^2b^9 + 11ab^10 - b^11. 21. (a + b)^12 = a^12 + 12a^11b + 66a^10b^2 + 220a^9b^3 + 495a^8b^4 + 792a^7b^5 + 924a^6b^6 + 792a^5b^7 + 495a^4b^8 + 220a^3b^9 + 66a^2b^10 + 12ab^11 + b^12. 22. (a - b)^12 = a^12 - 12a^11b + 66a^10b^2 - 220a^9b^3 + 495a^8b^4 - 792a^7b^5 + 924a^6b^6 - 792a^5b^7 + 495a^4b^8 - 220a^3b^9 + 66a^2b^10 - 12ab^11 + b^12. 23. (a + b)^13 = a^13 + 13a^12b + 78a^11b^2 + 286a^10b^3 + 715a^9b^4 + 1716a^8b^5 + 3003a^7b^6 + 3003a^6b^7 + 1716a^5b^8 + 715a^4b^9 + 286a^3b^10 + 78a^2b^11 + 13ab^12 + b^13. 24. (a - b)^13 = a^13 - 13a^12b + 78a^11b^2 - 286a^10b^3 + 715a^9b^4 - 1716a^8b^5 + 3003a^7b^6 - 3003a^6b^7 + 1716a^5b^8 - 715a^4b^9 + 286a^3b^10 - 78a^2b^11 + 13ab^12 - b^13. 25. (a + b)^14 = a^14 + 14a^13b + 91a^12b^2 + 364a^11b^3 + 1001a^10b^4 + 2002a^9b^5 + 3003a^8b^6 + 3003a^7b^7 + 2002a^6b^8 + 1001a^5b^9 + 364a^4b^10 + 91a^3b^11 + 14a^2b^12 + 14ab^13 + b^14. 26. (a - b)^14 = a^14 - 14a^13b + 91a^12b^2 - 364a^11b^3 + 1001a^10b^4 - 2002a^9b^5 + 3003a^8b^6 - 3003a^7b^7 + 2002a^6b^8 - 1001a^5b^9 + 364a^4b^10 - 91a^3b^11 + 14a^2b^12 - 14ab^13 + b^14. 27. (a + b)^15 = a^15 + 15a^14b + 105a^13b^2 + 455a^12b^3 + 1365a^11b^4 + 3465a^10b^5 + 6930a^9b^6 + 10010a^8b^7 + 10010a^7b^8 + 6930a^6b^9 + 3465a^5b^10 + 1365a^4b^11 + 455a^3b^12 + 105a^2b^13 + 15ab^14 + b^15. 28. (a - b)^15 = a^15 - 15a^14b + 105a^13b^2 - 455a^12b^3 + 1365a^11b^4 - 3465a^10b^5 + 6930a^9b^6 - 10010a^8b^7 + 10010a^7b^8 - 6930a^6b^9 + 3465a^5b^10 - 1365a^4b^11 + 455a^3b^12 - 105a^2b^13 + 15ab^14 - b^15. 29. (a + b)^16 = a^16 + 16a^15b + 120a^14b^2 + 680a^13b^3 + 2380a^12b^4 + 5472a^11b^5 + 10920a^10b^6 + 16796a^9b^7 + 16796a^8b^8 + 10920a^7b^9 + 5472a^6b^10 + 2380a^5b^11 + 680a^4b^12 + 120a^3b^13 + 16a^2b^14 + 16ab^15 + b^16. 30. (a - b)^16 = a^16 - 16a^15b + 120a^14b^2 - 680a^13b^3 + 2380a^12b^4 - 5472a^11b^5 + 10920a^10b^6 - 16796a^9b^7 + 16796a^8b^8 - 10920a^7b^9 + 5472a^6b^10 - 2380a^5b^11 + 680a^4b^12 - 120a^3b^13 + 16a^2b^14 - 16ab^15 + b^16. 31. (a + b)^17 = a^17 + 17a^16b + 136a^15b^2 + 816a^14b^3 + 3596a^13b^4 + 12376a^12b^5 + 33649a^11b^6 + 77521a^10b^7 + 128700a^9b^8 + 128700a^8b^9 + 77521a^7b^10 + 33649a^6b^11 + 12376a^5b^12 + 816a^4b^13 + 136a^3b^14 + 17a^2b^15 + 17ab^16 + b^17. 32. (a - b)^17 = a^17 - 17a^16b + 136a^15b^2 - 816a^14b^3 + 3596a^13b^4 - 12376a^12b^5 + 33649a^11b^6 - 77521a^10b^7 + 128700a^9b^8 - 128700a^8b^9 + 77521a^7b^10 - 33649a^6b^11 + 12376a^5b^12 - 816a^4b^13 + 136a^3b^14 - 17a^2b^15 + 17ab^16 - b^17. 33. (a + b)^18 = a^18 + 18a^17b + 153a^16b^2 + 1026a^15b^3 + 5013a^14b^4 + 19641a^13b^5 + 58083a^12b^6 + 137298a^11b^7 + 282429a^10b^8 + 486204a^9b^9 + 486204a^8b^10 + 282429a^7b^11 + 137298a^6b^12 + 58083a^5b^13 + 19641a^4b^14 + 1026a^3b^15 + 153a^2b^16 + 18ab^17 + b^18. 34. (a - b)^18 = a^18 - 18a^17b + 153a^16b^2 - 1026a^15b^3 + 5013a^14b^4 - 19641a^13b^5 + 58083a^12b^6 - 137298a^11b^7 + 282429a^10b^8 - 486204a^9b^9 + 486204a^8b^10 - 282429a^7b^11 + 137298a^6b^12 - 58083a^5b^13 + 19641a^4b^14 - 1026a^3b^15 + 153a^2b^16 - 18ab^17 + b^18. 35. (a + b)^19 = a^19 + 19a^18b + 171a^17b^2 + 1227a^16b^3 + 7752a^15b^4 + 40182a^14b^5 + 184344a^13b^6 + 618240a^12b^7 + 1771320a^11b^8 + 401820a^10b^9 + 816480a^9b^10 + 816480a^8b^11 + 401820a^7b^12 + 1771320a^6b^13 + 618240a^5b^14 + 184344a^4b^15 + 7752a^3b^16 + 1227a^2b^17 + 19ab^18 + b^19. 36. (a - b)^19 = a^19 - 19a^18b + 171a^17b^2 - 1227a^16b^3 + 7752a^15b^4 - 40182a^14b^5 + 184344a^13b^6 - 618240a^12b^7 + 1771320a^11b^8 - 401820a^10b^9 + 816480a^9b^10 - 816480a^8b^11 + 401820a^7b^12 - 1771320a^6b^13 + 618240a^5b^14 - 184344a^4b^15 + 7752a^3b^16 - 1227a^2b^17 + 19ab^18 - b^19. 37. (a + b)^20 = a^20 + 20a^19b + 190a^18b^2 + 1330a^17b^3 + 8778a^16b^4 + 45420a^15b^5 + 210996a^14b^6 + 87780a^13b^7 + 271320a^12b^8 + 686496a^11b^9 + 1351800a^10b^10 + 1351800a^9b^11 + 87780a^8b^12 + 271320a^7b^13 + 686496a^6b^14 + 1351800a^5b^15 + 210996a^4b^16 + 45420a^3b^17 + 1330a^2b^18 + 20ab^19 + b^20. 38. (a - b)^20 = a^20 - 20a^19b + 190a^18b^2 - 1330a^17b^3 + 8778a^16b^4 - 45420a^15b^5 + 210996a^14b^6 - 87780a^13b^7 + 271320a^12b^8 - 686496a^11b^9 + 1351800a^10b^10 - 1351800a^9b^11 + 87780a^8b^12 - 271320a^7b^13 + 686496a^6b^14 - 1351800a^5b^15 + 210996a^4b^16 - 45420a^3b^17 + 1330a^2b^18 - 20ab^19 + b^20. 39. (a + b)^21 = a^21 + 21a^20b + 210a^19b^2 + 15435a^18b^3 + 98010a^17b^4 + 520020a^16b^5 + 2431500a^15b^6 + 980100a^14b^7 + 3003000a^13b^8 + 7521360a^12b^9 + 15435000a^11b^10 + 27132000a^10b^11 + 27132000a^9b^12 + 15435000a^8b^13 + 7521360a^7b^14 + 2431500a^6b^15 + 980100a^5b^16 + 520020a^4b^17 + 15435a^3b^18 + 210a^2b^19 + 21ab^20 + b^21. 40. (a - b)^21 = a^21 - 21a^20b + 210a^19b^2 - 15435a^18b^3 + 98010a^17b^4 - 520020a^16b^5 + 2431500a^15b^6 - 980100a^14b^7 + 3003000a^13b^8 - 7521360a^12b^9 + 15435000a^11b^10 - 27132000a^10b^11 + 27132000a^9b^12 - 15435000a^8b^13 + 7521360a^7b^14 - 2431500a^6b^15 + 980100a^5b^16 - 520020a^4b^17 + 15435a^3b^18 - 210a^2b^19 + 21ab^20 - b^21. 41. (a + b)^22 = a^22 + 22a^21b + 231a^20b^2 + 1771a^19b^3 + 11628a^18b^4 + 67620a^17b^5 + 352716a^16b^6 + 177100a^15b^7 + 561738a^14b^8 + 1478580a^13b^9 + 3527160a^12b^10 + 7717380a^11b^11 + 14785800a^10b^12 + 14785800a^9b^13 + 7717380a^8b^14 + 3527160a^7b^15 + 177100a^6b^16 + 67620a^5b^17 + 11628a^4b^18 + 231a^3b^19 + 22a^2b^20 + 22ab^21 + b^22. 42. (a - b)^22 = a^22 - 22a^21b + 231a^20b^2 - 1771a^19b^3 + 11628a^18b^4 - 67620a^17b^5 + 352716a^16b^6 - 177100a^15b^7 + 561738a^14b^8 - 1478580a^13b^9 + 3527160a^12b^10 - 7717380a^11b^11 + 14785800a^10b^12 - 14785800a^9b^13 + 7717380a^8b^14 - 3527160a^7b^15 + 177100a^6b^16 - 67620a^5b^17 + 11628a^4b^18 - 231a^3b^19 + 22a^2b^20 - 22ab^21 + b^22. 43. (a + b)^23 = a^23 + 23a^22b + 253a^21b^2 + 19995a^20b^3 + 128700a^19b^4 + 792360a^18b^5 + 4393140a^17b^6 + 2147400a^16b^7 + 7054350a^15b^8 + 20449080a^14b^9 + 50195400a^13b^10 + 112385160a^12b^11 + 223997160a^11b^12 + 223997160a^10b^13 + 112385160a^9b^14 + 50195400a^8b^15 + 20449080a^7b^16 + 7054350a^6b^17 + 2147400a^5b^18 + 4393140a^4b^19 + 128700a^3b^20 + 253a^2b^21 + 23ab^22 + b^23. 44. (a - b)^23 = a^23 - 23a^22b + 253a^21b^2 - 19995a^20b^3 + 128700a^19b^4 - 792360a^18b^5 + 4393140a^17b^6 - 2147400a^16b^7 + 7054350a^15b^8 - 20449080a^14b^9 + 50195400a^13b^10 - 112385160a^12b^11 + 223997160a^11b^12 - 223997160a^10b^13 + 112385160a^9b^14 - 50195400a^8b^15 + 20449080a^7b^16 - 7054350a^6b^17 + 2147400a^5b^18 - 4393140a^4b^19 + 128700a^3b^20 - 253a^2b^21 + 23ab^22 - b^23. 45. (a + b)^24 = a^24 + 24a^23b + 276a^22b^2 + 2184a^21b^3 + 145656a^20b^4 + 913680a^19b^5 + 5006388a^18b^6 + 25989120a^17b^7 + 117180360a^16b^8 + 442672800a^15b^9 + 1395381600a^14b^10 + 3445945680a^13b^11 + 7717344000a^12b^12 + 15434688000a^11b^13 + 15434688000a^10b^14 + 7717344000a^9b^15 + 3445945680a^8b^16 + 1395381600a^7b^17 + 442672800a^6b^18 + 25989120a^5b^19 + 5006388a^4b^20 + 913680a^3b^21 + 276a^2b^22 + 24ab^23 + b^24. 46. (a - b)^24 = a^24 - 24a^23b + 276a^22b^2 - 2184a^21b^3 + 145656a^20b^4 - 913680a^19b^5 + 5006388a^18b^6 - 25989120a^17b^7 + 117180360a^16b^8 - 442672800a^15b^9 + 1395381600a^14b^10 - 3445945680a^13b^11 + 7717344000a^12b^12 - 15434688000a^11b^13 + 15434688000a^10b^14 - 7717344000a^9b^15 + 3445945680a^8b^16 - 1395381600a^7b^17 + 442672800a^6b^18 - 25989120a^5b^19 + 5006388a^4b^20 - 913680a^3b^21 + 276a^2b^22 - 24ab^23 + b^24. 47. (a + b)^25 = a^25 + 25a^24b + 299a^23b^2 + 2300a^22b^3 + 154825a^21b^4 + 972450a^20b^5 + 5607810a^19b^6 + 28049100a^18b^7 + 126205950a^17b^8 + 500638350a^16b^9 + 1701376350a^15b^10 + 4426728000a^14b^11 + 9724500000a^13b^12 + 17013763500a^12b^13 + 17013763500a^11b^14 + 9724500000a^10b^15 + 5006383500a^9b^16 + 1262059500a^8b^17 + 280491000a^7b^18 + 56078100a^6b^19 + 9724500a^5b^20 + 2300a^4b^21 + 299a^3b^22 + 25a^2b^23 + 25ab^24 + b^25. 48. (a - b)^25 = a^25 - 25a^24b + 299a^23b^2 - 2300a^22b^3 + 154825a^21b^4 - 972450a^20b^5 + 5607810a^19b^6 - 28049100a^18b^7 + 126205950a^17b^8 - 500638350a^16b^9 + 1701376350a^15b^10 - 4426728000a^14b^11 + 9724500000a^13b^12 - 17013763500a^12b^13 + 17013763500a^11b^14 - 9724500000a^10b^15 + 5006383500a^9b^16 - 1262059500a^8b^17 + 280491000a^7b^18 - 56078100a^6b^19 + 9724500a^5b^20 - 2300a^4b^21 + 299a^3b^22 - 25a^2b^23 + 25ab^24 - b^25. 49. (a + b)^26 = a^26 + 26a^25b + 322a^24b^2 + 2538a^23b^3 + 177100a^22b^4 + 1105820a^21b^5 + 6583260a^20b^6 + 32263800a^19b^7 + 154824000a^18b^8 + 658326000a^17b^9 + 2538000000a^16b^10 + 8593800000a^15b^11 + 22399716000a^14b^12 + 44267280000a^13b^13 + 77173440000a^12b^14 + 112385160000a^11b^15 + 112385160000a^10b^16 + 77173440000a^9b^17 + 44267280000a^8b^18 + 2538000000a^7b^19 + 658326000a^6b^20 + 110582000a^5b^21 + 32263800a^4b^22 + 2538a^3b^23 + 26a^2b^24 + 26ab^25 + b^26. 50. (a - b)^26 = a^26 - 26a^25b + 322a^24b^2 - 2538a^23b^3 + 177100a^22b^4 - 1105820a^21b^5 + 6583260a^20b^6 - 32263800a^19b^7 + 154824000a^18b^8 - 658326000a^17b^9 + 2538000000a^16b^10 - 8593800000a^15b^11 + 22399716000a^14b^12 - 44267280000a^13b^13 + 77173440000a^12b^14 - 112385160000a^11b^15 + 112385160000a^10b^16 - 77173440000a^9b^17 + 44267280000a^8b^18 - 2538000000a^7b^19 + 658326000a^6b^20 - 110582000a^5b^21 + 32263800a^4b^22 - 2538a^3b^23 + 26a^2b^24 - 26ab^25 + b^26. 51. (a + b)^27 = a^27 + 27a^26b + 351a^25b^2 + 2709a^24b^3 + 182700a^23b^4 + 11058200a^22b^5 + 65832600a^21b^6 + 322638000a^20b^7 + 1548240000a^19b^8 + 6583260000a^18b^9 + 25380000000a^17b^10 + 85938000000a^16b^11 + 223997160000a^15b^12 + 442672800000a^14b^13 + 771734400000a^13b^14 + 1123851600000a^12b^15 + 1123851600000a^11b^16 + 771734400000a^10b^17 + 442672800000a^9b^18 + 253800000000a^8b^19 + 65832600000a^7b^20 + 11058200000a^6b^21 + 3226380000a^5b^22 + 2709a^4b^23 + 351a^3b^24 + 27a^2b^25 + 27ab^26 + b^27. 52. (a - b)^27 = a^27 - 27a^26b + 351a^25b^2 - 2709a^24b^3 + 182700a^23b^4 - 11058200a^22b^5 + 65832600a^21b^6 - 322638000a^20b^7 + 1548240000a^19b^8 - 6583260000a^18b^9 + 25380000000a^17b^10 - 85938000000a^16b^11 + 223997160000a^15b^12 - 442672800000a^14b^13 + 771734400000a^13b^14 - 1123851600000a^12b^15 + 1123851600000a^11b^16 - 771734400000a^10b^17 + 442672800000a^9b^18 - 253800000000a^8b^19 + 65832600000a^7b^20 - 11058200000a^6b^21 + 3226380000a^5b^22 - 2709a^4b^23 + 351a^3b^24 - 27a^2b^25 + 27ab^26 - b^27. 53. (a + b)^28 = a^28 + 28a^27b + 378a^26b^2 + 2835a^25b^3 + 194490a^24b^4 + 1197840a^23b^5 + 7123380a^22b^6 + 35617800a^21b^7 + 178089600a^20b^8 + 712338000a^19b^9 + 2835000000a^18b^10 + 9136800000a^17b^11 + 25989120000a^16b^12 + 50063835000a^15b^13 + 97245000000a^14b^14 + 177100000000a^13b^15 + 300300000000a^12b^16 + 442672800000a^11b^17 + 442672800000a^10b^18 + 300300000000a^9b^19 + 177100000000a^8b^20 + 9136800000a^7b^21 + 2598912000a^6b^22 + 356178000a^5b^23 + 194490a^4b^24 + 2835a^3b^25 + 378a^2b

