The Wisdom Global School

No. of Pgs. -03

Subject–Mathematics

Topic – Binomial expansion

(Worksheet)

Q1. Expand : $(x + 2)^3$.

Q2. Find the expansion of $(a - b)^4$.

Q3. Simplify- $(2x - 5)^3$.

Q4. Expand : $(3y + 1)^5$.

Q5. Determine the expansion of $(p + 4)^4$.

Q6. Calculate : $(2a - 3b)^4$.

Q7. Expand : $(5m - 2)^5$.

Q8. Simplify- $(x + 1)^5$.

Q9. Find the expansion of $(2c - 7)^4$.

Q10. Expand : $(4n - 3)^6$.

Q11. Expand : $(a + b)^4$.

Q12. Simplify- $(3x - 2)^6$.

Q13. Find the expansion of $(2y + 1)^6$.

Q14. Expand : $(5z - 4)^4$.

Q15. Calculate- $(p - 2)^4$.

Q16. Determine the expansion of $(m + 3)^5$.

Q17. Simplify- $(2n - 1)^3$.

Q18. Expand : $(x + 5)^4$.

Q19. Find the expansion of $(a - 3)^7$.

Q20. Expand : $(4b + 2)^3$.

Q21. Expand : $(c - 2)^5$.

Q22. Simplify : $(4y + 1)^7$.

Q23. Find the expansion of $(2x + 3)^4$.

Q24. Expand : $(a - 4)^5$.

Q25. Calculate- $(7z + 2)^3$.

Q26. Determine the expansion of $(p + 1)^6$.

Q27. Simplify- $(3m - 5)^7$.

Q28. Expand : $(5n + 2)^4$.

Q29. Find the expansion of $(x - 14)^5$.

Q30. Expand : $(2a + 4)^5$.

Q31. Simplify- $(b - 3)^4$.

Q32. Find the expansion of $(6c + 2)^4$.

Q33. Expand : $(2y - 1)^5$.

Q34. Calculate- $(x + 3)^7$.

Q35. Determine the expansion of $(4z - 2)^4$.

Q36. Simplify- $(2p + 5)^4$.

Q37. Expand : $(3m - 4)^6$.

Q38. Find the expansion of $(n + 2)^5$.

Q39. Expand : $(a - 5)^4$.

Q40. Calculate- $(2b + 1)^5$.

Q41. Determine the expansion of $(c + 2)^8$.

Q42. Simplify- $(4x - 3)^5$.

Q43. Expand : $(y + 4)^4$.

Q44. Find the expansion of $(3z - 1)^5$.

Q45. Calculate- $(p + 2)^6$.

Q46. Simplify- $(5m + 1)^7$.

Q47. Expand : $(2n - 5)^4$.

Q48. Determine the expansion of $(x - 2)^8$.

Q49. Find the expansion of $(a + 6)^3$.

Q50. Expand : $(4b - 1)^5$.

Q51. Expand : $(3c - 1)^4$.

Q52. Simplify- $(2y + 5)^5$.

Q53. Find the expansion of $(x + 2)^6$.

Q54. Expand : $(a - 3)^6$.

Q55. Calculate $(4z + 1)^4$.

Q56. Determine the expansion of $(p - 2)^5$.

Q57. Simplify- $(m + 4)^8$.

Q58. Expand : $(2n + 3)^7$.

Q59. Find the expansion of $(5x - 1)^4$.

Q60. Expand : $(a + 5)^8$.

Q61. Simplify- $(b - 2)^5$.

Q62. Determine the expansion of $(6c + 3)^3$.

Q63. Expand : $(2y - 1)^7$.

Q64. Calculate- $(x + 4)^5$.

Q65. Find the expansion of $(3z - 2)^4$.

Q66. Expand : $(2p - 5)^5$.

Q67. Simplify- $(3m + 2)^6$.

Q68. Determine the expansion of $(2n - 1)^7$.

Q69. Find the expansion of $(a + 3)^4$.

Q70. Expand : $(4b + 2)^6$.

Q71. Find the fifth term in the expansion of $(2x-3)^6$.

Q72. Determine the coefficient of x^2 in the expansion of $(1-2x)^5$.

Q73. What is the constant term in the expansion of $(3x-2)^6$?

Q74. Expand and simplify $(2a-5)^7$.

Q75. Find the general term (nth term) in the expansion of $(x + 2)^n$.

Q76. Calculate the value of $(1/2 + x)^4$ when x=3.

Q77. Determine the middle term in the expansion of $(2y-1)^6$.

Q78. Expand and simplify: $(a-2b)^{10}$.

Q79. Find the sum of the coefficients in the expansion of $(x + 1)^7$.

Q80. Determine the coefficient of x^3 in the expansion of $(2x-1/x)^4$.

Q81. Express $(a-b)^n$ in terms of binomial coefficients.

Q82. Find the term independent of x in the expansion of $(1+2x)^6$.

Q83. Calculate the value of $(1+x)^6 - (1-x)^6$.

Q84. Calculate the value of $(3+2x)^6 - (3- 2x)^6$.

Q85. Find the value of $(a+b)^6 - (a-b)^6$.

---------- END ----------