EduSahara™ Assignment

Name : Addition and Subtraction of Algebraic Expressions

Chapter : Algebraic Expressions and Identities

Grade : CBSE Grade VIII

1. The value of $3j+4j$ is

   (i) $9j$ (ii) $7j$ (iii) $6j$ (iv) $8j$ (v) $4j$

2. The value of $(-7u)+(-5u)+(-8u)+(-6u)$ is

   (i) $(-27u)$ (ii) $(-24u)$ (iii) $(-26u)$ (iv) $(-25u)$ (v) $(-28u)$

3. The value of $9w^2+(-5w^2)+6w^2$ is

   (i) $10w^2$ (ii) $11w^2$ (iii) $8w^2$ (iv) $9w^2$ (v) $12w^2$

4. The value of $(-2y^4)+5y^4+(-6y^4)+(-6y^4)$ is

   (i) $(-9y^4)$ (ii) $(-12y^4)$ (iii) $(-10y^4)$ (iv) $(-8y^4)$ (v) $(-7y^4)$

5. The value of $(-9z-1)+(-3z-7)$ is

   (i) $(-14z-8)$ (ii) $(-11z-8)$ (iii) $(-13z-8)$ (iv) $(-9z-8)$ (v) $(-12z-8)$

6. The value of $(9e^2+7e+3)+(-4e^2-4e+6)$ is

   (i) $(6e^2+3e+9)$ (ii) $(2e^2+3e+9)$ (iii) $(8e^2+3e+9)$ (iv) $(5e^2+3e+9)$ (v) $(4e^2+3e+9)$

7. The value of $(7q^5+8q^4+8)+(-7q^4+3q^3+2)$ is

   (i) $(4q^5+q^4+3q^3+10)$ (ii) $(6q^5+q^4+3q^3+10)$ (iii) $(10q^5+q^4+3q^3+10)$ (iv) $(8q^5+q^4+3q^3+10)$

   (v) $(7q^5+q^4+3q^3+10)$

8. The value of $(6p^5+2p^4-5)+(3p^5+4p^2-8p)+(6p^4-9p-6)+(-2p^3-7p^2+9)$ is

   (i) $(6p^5+8p^4-2p^3-3p^2-17p-2)$ (ii) $(11p^5+8p^4-2p^3-3p^2-17p-2)$

   (iii) $(8p^5+8p^4-2p^3-3p^2-17p-2)$ (iv) $(10p^5+8p^4-2p^3-3p^2-17p-2)$

   (v) $(9p^5+8p^4-2p^3-3p^2-17p-2)$

9. The value of $\frac{2}{5}e+\frac{1}{2}e$ is

   (i) $\frac{7}{10}e$ (ii) $\frac{3}{4}e$ (iii) $\frac{9}{10}e$ (iv) $\frac{11}{10}e$ (v) $\frac{9}{8}e$

10. The value of $\frac{1}{2}i+\frac{1}{5}i+\frac{4}{5}i+\frac{4}{5}i$ is

(i) $\frac{9}{4}i$ (ii) $\frac{19}{8}i$ (iii) $\frac{23}{10}i$ (iv) $\frac{5}{2}i$ (v) $\frac{21}{10}i$

11. The value of $\frac{3}{5}a^2+\frac{3}{4}a^2+\frac{1}{5}a^2$ is

(i) $\frac{29}{18}a^2$ (ii) $\frac{31}{20}a^2$ (iii) $\frac{29}{20}a^2$ (iv) $\frac{3}{2}a^2$ (v) $\frac{33}{20}a^2$

12. The value of $\frac{1}{2}q^4+\frac{1}{2}q^4+\frac{1}{2}q^4+\frac{3}{4}q^4$ is

(i) $\frac{13}{6}q^4$ (ii) $\frac{9}{4}q^4$ (iii) $\frac{7}{4}q^4$ (iv) $\frac{5}{2}q^4$ (v) $\frac{11}{4}q^4$

13. The value of $(-6t)-(-6t)$ is

(i) 2 (ii) (-3) (iii) 1 (iv) (-1) (v) 0

14. The value of $e^2-9e^2-8e^2$ is

(i) $(-16e^2)$ (ii) $(-19e^2)$ (iii) $(-14e^2)$ (iv) $(-17e^2)$ (v) $(-15e^2)$

15. The value of $(-4f^3)-(-8f^3)$ is

(i) f^3 (ii) $6f^3$ (iii) $4f^3$ (iv) $3f^3$ (v) $5f^3$

16. The value of $(-6s^5)-2s^5-5s^5$ is

(i) $(-16s^5)$ (ii) $(-12s^5)$ (iii) $(-10s^5)$ (iv) $(-14s^5)$ (v) $(-13s^5)$

17. The value of $(9x-6)-(-x+3)$ is

(i) $(9x-9)$ (ii) $(13x-9)$ (iii) $(7x-9)$ (iv) $(11x-9)$ (v) $(10x-9)$

18. The value of $(2h^2+9h-1)-(-7h^2-7h+9)$ is

(i) $(8h^2+16h-10)$ (ii) $(12h^2+16h-10)$ (iii) $(6h^2+16h-10)$ (iv) $(9h^2+16h-10)$

(v) $(10h^2+16h-10)$

19. The value of $(3f^5+7f^3+6f)-(-9f^2-3f+6)$ is

(i) $(4f^5+7f^3+9f^2+9f-6)$ (ii) $(5f^5+7f^3+9f^2+9f-6)$ (iii) $(3f^5+7f^3+9f^2+9f-6)$

(iv) $(2f^5+7f^3+9f^2+9f-6)$ (v) $(7f^3+9f^2+9f-6)$

20. The value of $(8m^3-3m^2+5m)-(7m^4-3m^3+4m)-(-2m^4+5m^3-2)$ is

(i) $(-2m^4+6m^3-3m^2+m+2)$ (ii) $(-8m^4+6m^3-3m^2+m+2)$ (iii) $(-6m^4+6m^3-3m^2+m+2)$

(iv) $(-4m^4+6m^3-3m^2+m+2)$ (v) $(-5m^4+6m^3-3m^2+m+2)$

21. The value of $\frac{1}{2}g-\frac{1}{4}g$ is

(i) $\frac{1}{4}g$ (ii) $\frac{1}{2}g$ (iii) $(-\frac{1}{4}g)$ (iv) $\frac{3}{4}g$ (v) $\frac{1}{6}g$

22. The value of $\frac{1}{3}x^2-\frac{1}{2}x^2-\frac{1}{2}x^2$ is

(i) $(-\frac{2}{5}x^2)$ (ii) $(-\frac{4}{3}x^2)$ (iii) $(-\frac{2}{3}x^2)$ (iv) 0 (v) $(-2x^2)$

23. The value of $\frac{3}{4}d^3-\frac{3}{5}d^3$ is

(i) $\frac{1}{4}d^3$ (ii) $\frac{3}{22}d^3$ (iii) $\frac{3}{20}d^3$ (iv) $\frac{1}{6}d^3$ (v) $\frac{1}{20}d^3$

24. The value of $\frac{1}{2}q^5-\frac{2}{3}q^5-\frac{3}{5}q^5$ is

(i) $(-\frac{23}{30}q^5)$ (ii) $(-\frac{5}{6}q^5)$ (iii) $(-\frac{23}{32}q^5)$ (iv) $(-\frac{23}{28}q^5)$ (v) $(-\frac{7}{10}q^5)$

25. The sum of the terms $5q,(-6),(-6),q,9$ is

(i) $(6q-6)$ (ii) $(6q-3)$ (iii) $(7q-3)$ (iv) $(5q-3)$ (v) $(6q-1)$

26. The sum of the terms $(-9r),(-6q),q,8q,(-6r)$ is

(i) $(3q-18r)$ (ii) $(2q-15r)$ (iii) $(3q-13r)$ (iv) $(4q-15r)$ (v) $(3q-15r)$

27. The sum of the terms $6uw,(-3w),(-5uvw),(-6v),(-3u)$ is

(i) $(-5uvw+9uw-3u-6v-3w)$ (ii) $(-4uvw+6uw-3u-6v-3w)$ (iii) $(-5uvw+4uw-3u-6v-3w)$

(iv) $(-5uvw+6uw-3u-6v-3w)$ (v) $(-6uvw+6uw-3u-6v-3w)$

28. The sum of the expressions $(-4x-2),(-x+8),(4x+2),(-2x-10),(-14x-2)$ is

(i) $(-17x-2)$ (ii) $(-18x-4)$ (iii) $(-16x-4)$ (iv) $(-17x-4)$ (v) $(-17x-6)$

29. The sum of the expressions $(8mn-9n),(-8m-n),(16m-9),(-4m+4n),(-8mn-15m)$ is

(i) $(-10m-6n-9)$ (ii) $(-11m-9n-9)$ (iii) $(-11m-4n-9)$ (iv) $(-11m-6n-9)$ (v) $(-12m-6n-9)$

30. The sum of the expressions $(2b+6),(4b-2),(2b-5),(-4b+7),(9b+4)$ is

(i) $(12b+10)$ (ii) $(14b+10)$ (iii) $(13b+10)$ (iv) $(13b+13)$ (v) $(13b+8)$

31. The sum of the expressions $(-3op-6o-4p),(3op+3o-2p),(6op-6o-6p),(op+9p-8),(o+4p-3)$ is

(i) $(7op-5o+p-11)$ (ii) $(7op-8o+p-11)$ (iii) $(8op-8o+p-11)$ (iv) $(7op-10o+p-11)$

(v) $(6op-8o+p-11)$

32. The value of $(-4vw)+8vw$ is

(i) $5vw$ (ii) $4vw$ (iii) vw (iv) $3vw$ (v) $6vw$

33. The value of $(-7d^2e^2)+(-3d^2e^2)+3d^2e^2+(-d^2e^2)$ is

(i) $(-9d^2e^2)$ (ii) $(-10d^2e^2)$ (iii) $(-8d^2e^2)$ (iv) $(-7d^2e^2)$ (v) $(-5d^2e^2)$

34. The value of $4qrs+2qrs$ is

(i) $8qrs$ (ii) $6qrs$ (iii) $5qrs$ (iv) $3qrs$ (v) $7qrs$

35. The value of $(-3b^3c^3d^3)+(-6b^3c^3d^3)+3b^3c^3d^3+2b^3c^3d^3$ is

(i) $(-3b^3c^3d^3)$ (ii) $(-7b^3c^3d^3)$ (iii) $(-2b^3c^3d^3)$ (iv) $(-5b^3c^3d^3)$ (v) $(-4b^3c^3d^3)$

36. The value of $(3a+b+9)+(6ab+9a+3b)$ is

(i) $(6ab+10a+4b+9)$ (ii) $(6ab+14a+4b+9)$ (iii) $(5ab+12a+4b+9)$ (iv) $(6ab+12a+4b+9)$

(v) $(7ab+12a+4b+9)$

37. The value of $(-4v^2w+4v^2-6vw^2+8w)+(5v^2w^2-7v^2w-5vw^2-6w)$ is

(i) $(5v^2w^2-13v^2w+4v^2-11vw^2+2w)$ (ii) $(5v^2w^2-9v^2w+4v^2-11vw^2+2w)$

(iii) $(5v^2w^2-11v^2w+4v^2-11vw^2+2w)$ (iv) $(4v^2w^2-11v^2w+4v^2-11vw^2+2w)$

(v) $(6v^2w^2-11v^2w+4v^2-11vw^2+2w)$

38. The value of $(-2no+2op-6p)+(-n-8o+6p)$ is

(i) $(-2no-4n+2op-8o)$ (ii) $(-3no-n+2op-8o)$ (iii) $(-no-n+2op-8o)$ (iv) $(-2no+2n+2op-8o)$

(v) $(-2no-n+2op-8o)$

39. The value of $(8s^2u+6t^2u-9tu^2)+(4s^2tu-3su+6tu)+(7stu^2+7su+3t^2u)$ is

(i) $(4s^2tu+11s^2u+7stu^2+4su+9t^2u-9tu^2+6tu)$ (ii) $(4s^2tu+5s^2u+7stu^2+4su+9t^2u-9tu^2+6tu)$

(iii) $(5s^2tu+8s^2u+7stu^2+4su+9t^2u-9tu^2+6tu)$ (iv) $(3s^2tu+8s^2u+7stu^2+4su+9t^2u-9tu^2+6tu)$

(v) $(4s^2tu+8s^2u+7stu^2+4su+9t^2u-9tu^2+6tu)$

40. The value of $\frac{1}{2}uv+\frac{1}{5}uv$ is

(i) $\frac{7}{10}uv$ (ii) $\frac{7}{8}uv$ (iii) $\frac{7}{12}uv$ (iv) $\frac{1}{2}uv$ (v) $\frac{9}{10}uv$

41. The value of $\frac{1}{5}c^2d^2+\frac{1}{2}c^2d^2+\frac{1}{3}c^2d^2+\frac{1}{2}c^2d^2$ is

(i) $\frac{21}{13}c^2d^2$ (ii) $\frac{25}{17}c^2d^2$ (iii) $\frac{7}{5}c^2d^2$ (iv) $\frac{23}{15}c^2d^2$ (v) $\frac{5}{3}c^2d^2$

42. The value of $\frac{1}{2}qrs + \frac{2}{5}qrs$ is

(i) $\frac{7}{10}qrs$ (ii) $\frac{11}{10}qrs$ (iii) $\frac{9}{8}qrs$ (iv) $\frac{9}{10}qrs$ (v) $\frac{3}{4}qrs$

43. The value of $\frac{3}{5}q^3r^3s^3 + \frac{2}{3}q^3r^3s^3 + \frac{2}{3}q^3r^3s^3 + \frac{3}{4}q^3r^3s^3$ is

(i) $\frac{161}{60}q^3r^3s^3$ (ii) $\frac{163}{60}q^3r^3s^3$ (iii) $\frac{53}{20}q^3r^3s^3$ (iv) $\frac{157}{58}q^3r^3s^3$ (v) $\frac{165}{62}q^3r^3s^3$

44. The value of $(-3hi) - (-5hi)$ is

(i) hi (ii) $3hi$ (iii) $2hi$ (iv) $4hi$ (v) 0

45. The value of $(-7de) - (-9de) - 6de - (-3de)$ is

(i) $(-de)$ (ii) $(-2de)$ (iii) $2de$ (iv) 0 (v) $(-3de)$

46. The value of $4v^2w^2x^2 - (-2v^2w^2x^2)$ is

(i) $9v^2w^2x^2$ (ii) $7v^2w^2x^2$ (iii) $5v^2w^2x^2$ (iv) $6v^2w^2x^2$ (v) $3v^2w^2x^2$

47. The value of $(-5v^2w^2x^2) - (-8v^2w^2x^2) - (-9v^2w^2x^2) - (-5v^2w^2x^2)$ is

(i) $15v^2w^2x^2$ (ii) $18v^2w^2x^2$ (iii) $17v^2w^2x^2$ (iv) $16v^2w^2x^2$ (v) $20v^2w^2x^2$

48. The value of $(-4no+4n-8) - (5n+4o+7)$ is

(i) $(-4no-n-4o-15)$ (ii) $(-5no-n-4o-15)$ (iii) $(-4no-3n-4o-15)$ (iv) $(-3no-n-4o-15)$

(v) $(-4no+2n-4o-15)$

49. The value of $(i^2j^2 - 2ij - i + 4j) - (-10i^2j^2 + 2i^2j + 7i + 1)$ is

(i) $(11i^2j^2 + i^2j - 2ij - 8i + 4j - 1)$ (ii) $(11i^2j^2 - 2i^2j - 2ij - 8i + 4j - 1)$ (iii) $(11i^2j^2 - 5i^2j - 2ij - 8i + 4j - 1)$

(iv) $(10i^2j^2 - 2i^2j - 2ij - 8i + 4j - 1)$ (v) $(12i^2j^2 - 2i^2j - 2ij - 8i + 4j - 1)$

50. The value of $(-7ik+3k+1) - (-3ij-4j+9)$ is

(i) $(4ij-7ik+4j+3k-8)$ (ii) $(3ij-5ik+4j+3k-8)$ (iii) $(3ij-7ik+4j+3k-8)$ (iv) $(2ij-7ik+4j+3k-8)$

(v) $(3ij-9ik+4j+3k-8)$

51. The value of $(-5d^2e^2f - 2d^2e + 4def) - (9d^2ef^2 + 7ef - 1) - (2de^2f^2 - 9f^2 - 2)$ is

(i) $(-4d^2e^2f - 9d^2ef^2 - 2d^2e - 2de^2f^2 + 4def - 7ef + 9f^2 + 3)$

(ii) $(-5d^2e^2f - 7d^2ef^2 - 2d^2e - 2de^2f^2 + 4def - 7ef + 9f^2 + 3)$

(iii) $(-5d^2e^2f - 12d^2ef^2 - 2d^2e - 2de^2f^2 + 4def - 7ef + 9f^2 + 3)$

(iv) $(-6d^2e^2f - 9d^2ef^2 - 2d^2e - 2de^2f^2 + 4def - 7ef + 9f^2 + 3)$

(v) $(-5d^2e^2f - 9d^2ef^2 - 2d^2e - 2de^2f^2 + 4def - 7ef + 9f^2 + 3)$

52. The value of $\frac{4}{5}xy - \frac{2}{5}xy$ is

(i) $\frac{2}{3}xy$ (ii) $\frac{2}{7}xy$ (iii) 0 (iv) $\frac{2}{5}xy$ (v) $\frac{4}{5}xy$

53. The value of $\frac{1}{4}gh - \frac{3}{5}gh - \frac{1}{2}gh - \frac{3}{5}gh$ is

(i) $(-\frac{29}{20}gh)$ (ii) $(-\frac{27}{20}gh)$ (iii) $(-\frac{29}{22}gh)$ (iv) $(-\frac{31}{20}gh)$ (v) $(-\frac{29}{18}gh)$

54. The value of $\frac{3}{4}l^2m^2n^2 - \frac{1}{3}l^2m^2n^2$ is

(i) $\frac{7}{12}l^2m^2n^2$ (ii) $\frac{5}{14}l^2m^2n^2$ (iii) $\frac{1}{4}l^2m^2n^2$ (iv) $\frac{1}{2}l^2m^2n^2$ (v) $\frac{5}{12}l^2m^2n^2$

55. The value of $\frac{1}{2}f^2g^2h^2 - \frac{1}{3}f^2g^2h^2 - \frac{1}{2}f^2g^2h^2 - \frac{3}{4}f^2g^2h^2$ is

(i) $(-\frac{13}{14}f^2g^2h^2)$ (ii) $(-\frac{13}{12}f^2g^2h^2)$ (iii) $(-\frac{5}{4}f^2g^2h^2)$ (iv) $(-\frac{11}{12}f^2g^2h^2)$ (v) $(-\frac{13}{10}f^2g^2h^2)$

Assignment Key

1) (ii)	2) (iii)	3) (i)	4) (i)	5) (v)	6) (iv)
7) (v)	8) (v)	9) (iii)	10) (iii)	11) (ii)	12) (ii)
13) (v)	14) (i)	15) (iii)	16) (v)	17) (v)	18) (iv)
19) (iii)	20) (v)	21) (i)	22) (iii)	23) (iii)	24) (i)
25) (ii)	26) (v)	27) (iv)	28) (iv)	29) (iv)	30) (iii)
31) (ii)	32) (ii)	33) (iii)	34) (ii)	35) (v)	36) (iv)
37) (iii)	38) (v)	39) (v)	40) (i)	41) (iv)	42) (iv)
43) (i)	44) (iii)	45) (i)	46) (iv)	47) (iii)	48) (i)
49) (ii)	50) (iii)	51) (v)	52) (iv)	53) (i)	54) (v)
55) (ii)					