EduSahara™ Assignment

Name : Addition and Subtraction of Algebraic Expressions

Chapter : Fundamental Concepts

Grade : ICSE Grade VIII

1. The value of $(-5s)+(-7s)$ is

   (i) $(-12s)$ (ii) $(-13s)$ (iii) $(-15s)$ (iv) $(-11s)$ (v) $(-10s)$

2. The value of $(-9r)+(-9r)+(-7r)+4r$ is

   (i) $(-24r)$ (ii) $(-21r)$ (iii) $(-20r)$ (iv) $(-22r)$ (v) $(-19r)$

3. The value of $(-2k^2)+8k^2+(-9k^2)$ is

   (i) 0 (ii) $(-4k^2)$ (iii) $(-2k^2)$ (iv) $(-5k^2)$ (v) $(-3k^2)$

4. The value of $(-4k^4)+8k^4+(-9k^4)+(-3k^4)$ is

   (i) $(-7k^4)$ (ii) $(-8k^4)$ (iii) $(-6k^4)$ (iv) $(-9k^4)$ (v) $(-10k^4)$

5. The value of $(-6t+1)+(5t-6)$ is

   (i) (-5) (ii) $(-3t-5)$ (iii) $(2t-5)$ (iv) $(-t-5)$ (v) $(-2t-5)$

6. The value of $(8j^2-6j+5)+(j^2+9j+6)$ is

   (i) $(9j^2+3j+11)$ (ii) $(10j^2+3j+11)$ (iii) $(12j^2+3j+11)$ (iv) $(6j^2+3j+11)$ (v) $(8j^2+3j+11)$

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

   (i) $(-14t^4+7t^3+11)$ (ii) $(-12t^4+7t^3+11)$ (iii) $(-15t^4+7t^3+11)$ (iv) $(-17t^4+7t^3+11)$

   (v) $(-16t^4+7t^3+11)$

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

   (i) $(3s^5+18s^4+7s^3-2s^2+8s-5)$ (ii) $(6s^5+18s^4+7s^3-2s^2+8s-5)$ (iii) $(5s^5+18s^4+7s^3-2s^2+8s-5)$

   (iv) $(9s^5+18s^4+7s^3-2s^2+8s-5)$ (v) $(7s^5+18s^4+7s^3-2s^2+8s-5)$

9. The value of $\frac{1}{3}u+\frac{2}{5}u$ is

   (i) $\frac{11}{13}u$ (ii) $\frac{3}{5}u$ (iii) $\frac{11}{17}u$ (iv) $\frac{11}{15}u$ (v) $\frac{13}{15}u$

10. The value of $\frac{1}{3}y+\frac{4}{5}y+\frac{1}{2}y+\frac{1}{4}y$ is

    (i) $\frac{113}{60}y$ (ii) $\frac{111}{58}y$ (iii) $\frac{37}{20}y$ (iv) $\frac{115}{62}y$ (v) $\frac{23}{12}y$

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

(i) $\frac{19}{13}t^2$ (ii) $\frac{19}{17}t^2$ (iii) $\frac{19}{15}t^2$ (iv) $\frac{17}{15}t^2$ (v) $\frac{7}{5}t^2$

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

(i) $\frac{79}{30}r^4$ (ii) $\frac{5}{2}r^4$ (iii) $\frac{73}{28}r^4$ (iv) $\frac{77}{30}r^4$ (v) $\frac{81}{32}r^4$

13. The value of $(-9j) - 4j$ is

(i) $(-12j)$ (ii) $(-13j)$ (iii) $(-16j)$ (iv) $(-10j)$ (v) $(-14j)$

14. The value of $(-8n^2) - 8n^2 - (-2n^2)$ is

(i) $(-13n^2)$ (ii) $(-15n^2)$ (iii) $(-14n^2)$ (iv) $(-11n^2)$ (v) $(-16n^2)$

15. The value of $6x^3 - (-7x^3)$ is

(i) $16x^3$ (ii) $14x^3$ (iii) $12x^3$ (iv) $10x^3$ (v) $13x^3$

16. The value of $2s^5 - (-4s^5) - (-3s^5)$ is

(i) $9s^5$ (ii) $7s^5$ (iii) $8s^5$ (iv) $12s^5$ (v) $10s^5$

17. The value of $(-8f-2) - (-5f-2)$ is

(i) $(-4f)$ (ii) $(-3f)$ (iii) $(-2f)$ (iv) $(-5f)$ (v) $(-f)$

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

(i) $(12w^2+6w-1)$ (ii) $(10w^2+6w-1)$ (iii) $(11w^2+6w-1)$ (iv) $(13w^2+6w-1)$ (v) $(15w^2+6w-1)$

19. The value of $(3d^5+6d+7) - (3d^3+3d-4)$ is

(i) $(6d^5-3d^3+3d+11)$ (ii) $(2d^5-3d^3+3d+11)$ (iii) $(4d^5-3d^3+3d+11)$ (iv) $(d^5-3d^3+3d+11)$

(v) $(3d^5-3d^3+3d+11)$

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

(i) $(7f^5+9f^4+6f^3+3f+8)$ (ii) $(4f^5+9f^4+6f^3+3f+8)$ (iii) $(5f^5+9f^4+6f^3+3f+8)$

(iv) $(3f^5+9f^4+6f^3+3f+8)$ (v) $(f^5+9f^4+6f^3+3f+8)$

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

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

22. The value of $\frac{1}{2}m^2 - \frac{1}{5}m^2 - \frac{1}{4}m^2$ is

(i) $(-\frac{1}{20}m^2)$ (ii) $\frac{1}{18}m^2$ (iii) $\frac{1}{22}m^2$ (iv) $\frac{3}{20}m^2$ (v) $\frac{1}{20}m^2$

23. The value of $\frac{1}{4}h^3 - \frac{3}{5}h^3$ is

(i) $(-\frac{9}{20}h^3)$ (ii) $(-\frac{1}{4}h^3)$ (iii) $(-\frac{7}{18}h^3)$ (iv) $(-\frac{7}{22}h^3)$ (v) $(-\frac{7}{20}h^3)$

24. The value of $\frac{2}{5}y^5 - \frac{1}{3}y^5 - \frac{1}{4}y^5$ is

(i) $(-\frac{11}{58}y^5)$ (ii) $(-\frac{3}{20}y^5)$ (iii) $(-\frac{11}{60}y^5)$ (iv) $(-\frac{13}{60}y^5)$ (v) $(-\frac{11}{62}y^5)$

25. The sum of the terms $(-7v), 4v, 4, (-6), (-5v)$ is

(i) $(-9v-2)$ (ii) $(-8v-4)$ (iii) $(-8v-2)$ (iv) $(-8v)$ (v) $(-7v-2)$

26. The sum of the terms $6n, 5mn, (-2n), (-2n), 5$ is

(i) $(6mn+2n+5)$ (ii) $(5mn-n+5)$ (iii) $(5mn+5n+5)$ (iv) $(5mn+2n+5)$ (v) $(4mn+2n+5)$

27. The sum of the terms $4v, 9uv, (-3t), 9tu, (-8u)$ is

(i) $(8tu-3t+9uv-8u+4v)$ (ii) $(9tu-5t+9uv-8u+4v)$ (iii) $(9tu-t+9uv-8u+4v)$

(iv) $(9tu-3t+9uv-8u+4v)$ (v) $(10tu-3t+9uv-8u+4v)$

28. The sum of the expressions $(-4q+2), (9q-7), (7q+9), (8q-6), (-12q-2)$ is

(i) $(8q-4)$ (ii) $(7q-4)$ (iii) $(9q-4)$ (iv) $(8q-6)$ (v) $(8q-2)$

29. The sum of the expressions $(-7p+1), (9o+2), (9o-3p), (-2op+7), (3p-7)$ is

(i) $(-2op+18o-7p+3)$ (ii) $(-2op+21o-7p+3)$ (iii) $(-op+18o-7p+3)$ (iv) $(-3op+18o-7p+3)$

(v) $(-2op+16o-7p+3)$

30. The sum of the expressions $(-6r-18), (-7r-4), (6r+1), (8r+5), (-6r+7)$ is

(i) $(-5r-9)$ (ii) $(-5r-11)$ (iii) $(-5r-6)$ (iv) $(-6r-9)$ (v) $(-4r-9)$

31. The sum of the expressions $(14p-7q-9), (4p+2q-5), (-3pq-7p+8q), (3p+3q-7), (5pq-4q-2)$ is

(i) $(pq+14p+2q-23)$ (ii) $(2pq+14p+2q-23)$ (iii) $(2pq+11p+2q-23)$ (iv) $(2pq+17p+2q-23)$

(v) $(3pq+14p+2q-23)$

32. The value of $(-fg) + (-fg)$ is

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

33. The value of $(-7r^2s^2) + 3r^2s^2 + (-6r^2s^2) + 9r^2s^2$ is

(i) $(-2r^2s^2)$ (ii) 0 (iii) $(-3r^2s^2)$ (iv) $2r^2s^2$ (v) $(-r^2s^2)$

34. The value of $4ijk + 3ijk$ is

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

35. The value of $6o^3p^3q^3 + o^3p^3q^3 + (-5o^3p^3q^3) + (-9o^3p^3q^3)$ is

(i) $(-8o^3p^3q^3)$ (ii) $(-6o^3p^3q^3)$ (iii) $(-4o^3p^3q^3)$ (iv) $(-9o^3p^3q^3)$ (v) $(-7o^3p^3q^3)$

36. The value of $(6hi+4i+6) + (-9hi+2i+15)$ is

(i) $(-2hi+6i+21)$ (ii) $(-3hi+9i+21)$ (iii) $(-3hi+4i+21)$ (iv) $(-4hi+6i+21)$ (v) $(-3hi+6i+21)$

37. The value of $(2g^2h^2 - g^2h - 8h^2 + 1) + (4gh + 7g - 3h + 4)$ is

(i) $(2g^2h^2 - 3g^2h + 4gh + 7g - 8h^2 - 3h + 5)$ (ii) $(2g^2h^2 + g^2h + 4gh + 7g - 8h^2 - 3h + 5)$

(iii) $(3g^2h^2 - g^2h + 4gh + 7g - 8h^2 - 3h + 5)$ (iv) $(2g^2h^2 - g^2h + 4gh + 7g - 8h^2 - 3h + 5)$

(v) $(g^2h^2 - g^2h + 4gh + 7g - 8h^2 - 3h + 5)$

38. The value of $(-4vx + v - 7) + (-7vx + 2x + 8)$ is

(i) $(-12vx + v + 2x + 1)$ (ii) $(-10vx + v + 2x + 1)$ (iii) $(-11vx + 4v + 2x + 1)$ (iv) $(-11vx - v + 2x + 1)$

(v) $(-11vx + v + 2x + 1)$

39. The value of $\frac{1}{3}ef + \frac{1}{3}ef$ is

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

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

(i) $\frac{107}{58}a^2b^2$ (ii) $\frac{111}{62}a^2b^2$ (iii) $\frac{107}{60}a^2b^2$ (iv) $\frac{109}{60}a^2b^2$ (v) $\frac{37}{20}a^2b^2$

41. The value of $\frac{2}{5}ijk + \frac{4}{5}ijk$ is

(i) $\frac{8}{5}ijk$ (ii) $\frac{4}{5}ijk$ (iii) $2ijk$ (iv) $\frac{6}{5}ijk$ (v) $\frac{6}{7}ijk$

42. The value of $7vw - 3vw$ is

(i) $3vw$ (ii) $4vw$ (iii) $7vw$ (iv) $5vw$ (v) vw

43. The value of $(-6hi) - 8hi - 4hi - (-3hi)$ is

(i) $(-17hi)$ (ii) $(-15hi)$ (iii) $(-13hi)$ (iv) $(-16hi)$ (v) $(-14hi)$

44. The value of $(-6e^2f^2g^2) - (-7e^2f^2g^2)$ is

(i) $2e^2f^2g^2$ (ii) $(-2e^2f^2g^2)$ (iii) $e^2f^2g^2$ (iv) 0 (v) $3e^2f^2g^2$

45. The value of $(7vw-6v-7)-(3v+w-2)$ is

(i) $(7vw-7v-w-5)$ (ii) $(8vw-9v-w-5)$ (iii) $(7vw-9v-w-5)$ (iv) $(6vw-9v-w-5)$

(v) $(7vw-12v-w-5)$

46. The value of $(5r^2s-r^2+7r-6s)-(5r^2s^2+r^2-2s^2+2s)$ is

(i) $(-4r^2s^2+5r^2s-2r^2+7r+2s^2-8s)$ (ii) $(-6r^2s^2+5r^2s-2r^2+7r+2s^2-8s)$

(iii) $(-5r^2s^2+2r^2s-2r^2+7r+2s^2-8s)$ (iv) $(-5r^2s^2+7r^2s-2r^2+7r+2s^2-8s)$

(v) $(-5r^2s^2+5r^2s-2r^2+7r+2s^2-8s)$

47. The value of $(8oq+8o-4)-(-8opq-8p-2)$ is

(i) $(8opq+10oq+8o+8p-2)$ (ii) $(9opq+8oq+8o+8p-2)$ (iii) $(8opq+8oq+8o+8p-2)$

(iv) $(7opq+8oq+8o+8p-2)$ (v) $(8opq+5oq+8o+8p-2)$

48. The value of $\frac{1}{3}mn-\frac{1}{2}mn$ is

(i) $(-\frac{1}{6}mn)$ (ii) $(-\frac{1}{2}mn)$ (iii) $(-\frac{1}{8}mn)$ (iv) $(-\frac{1}{4}mn)$ (v) $\frac{1}{6}mn$

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

(i) $(-\frac{29}{15}op)$ (ii) $(-\frac{31}{15}op)$ (iii) $(-\frac{9}{5}op)$ (iv) $(-\frac{27}{13}op)$ (v) $(-\frac{31}{17}op)$

50. The value of $\frac{4}{5}w^2x^2y^2-\frac{1}{2}w^2x^2y^2$ is

(i) $\frac{1}{4}w^2x^2y^2$ (ii) $\frac{1}{10}w^2x^2y^2$ (iii) $\frac{3}{8}w^2x^2y^2$ (iv) $\frac{3}{10}w^2x^2y^2$ (v) $\frac{1}{2}w^2x^2y^2$

Assignment Key

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