EduSahara™ Assignment

Name : Addition and Subtraction of Algebraic Expressions

Chapter : Operations on Algebraic Expressions

Grade : ICSE Grade VI

1. The value of $9c+(-9c)$ is

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

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

   (i) $(-20s)$ (ii) $(-22s)$ (iii) $(-19s)$ (iv) $(-18s)$ (v) $(-16s)$

3. The value of $7g^2+(-3g^2)+(-9g^2)$ is

   (i) $(-6g^2)$ (ii) $(-7g^2)$ (iii) $(-4g^2)$ (iv) $(-2g^2)$ (v) $(-5g^2)$

4. The value of $7s^4+8s^4+5s^4+(-5s^4)$ is

   (i) $16s^4$ (ii) $12s^4$ (iii) $14s^4$ (iv) $15s^4$ (v) $18s^4$

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

   (i) $5r$ (ii) $2r$ (iii) r (iv) 0 (v) $3r$

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

   (i) $(4z^2-12z-4)$ (ii) $(-12z-4)$ (iii) $(5z^2-12z-4)$ (iv) $(3z^2-12z-4)$ (v) $(2z^2-12z-4)$

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

   (i) $(-2u^5-3u^4-4u^2+u-2)$ (ii) $(2u^5-3u^4-4u^2+u-2)$ (iii) $(-3u^4-4u^2+u-2)$

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

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

   (i) $(2q^5+6q^4+8q^3+3q^2-2q+8)$ (ii) $(6q^4+8q^3+3q^2-2q+8)$ (iii) $(3q^5+6q^4+8q^3+3q^2-2q+8)$

   (iv) $(q^5+6q^4+8q^3+3q^2-2q+8)$ (v) $(-2q^5+6q^4+8q^3+3q^2-2q+8)$

9. The value of $\frac{3}{4}y+\frac{2}{3}y$ is

   (i) $\frac{19}{12}y$ (ii) $\frac{5}{4}y$ (iii) $\frac{17}{12}y$ (iv) $\frac{17}{14}y$ (v) $\frac{17}{10}y$

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

    (i) $\frac{135}{62}m$ (ii) $\frac{43}{20}m$ (iii) $\frac{133}{60}m$ (iv) $\frac{131}{60}m$ (v) $\frac{127}{58}m$

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

(i) $\frac{9}{7}b^2$ (ii) $\frac{9}{5}b^2$ (iii) $\frac{7}{5}b^2$ (iv) b^2 (v) $\frac{5}{3}b^2$

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

(i) $\frac{33}{14}d^4$ (ii) $\frac{9}{4}d^4$ (iii) $\frac{5}{2}d^4$ (iv) $\frac{31}{12}d^4$ (v) $\frac{29}{12}d^4$

13. The value of $(-9a) - 9a$ is

(i) $(-19a)$ (ii) $(-17a)$ (iii) $(-18a)$ (iv) $(-15a)$ (v) $(-20a)$

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

(i) $(-4n^2)$ (ii) $(-3n^2)$ (iii) $(-2n^2)$ (iv) $(-6n^2)$ (v) $(-5n^2)$

15. The value of $6b^3 - 6b^3$ is

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

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

(i) $(-4w^5)$ (ii) $(-6w^5)$ (iii) $(-5w^5)$ (iv) $(-3w^5)$ (v) $(-2w^5)$

17. The value of $(3e-3) - (6e+2)$ is

(i) $(-6e-5)$ (ii) $(-4e-5)$ (iii) $(-2e-5)$ (iv) $(-3e-5)$ (v) (-5)

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

(i) $(3v^2-6)$ (ii) $(2v^2-6)$ (iii) (v^2-6) (iv) (-6) (v) $(-v^2-6)$

19. The value of $(2u^5+7u^4-6u) - (8u^5-u^4-1)$ is

(i) $(-4u^5+8u^4-6u+1)$ (ii) $(-8u^5+8u^4-6u+1)$ (iii) $(-6u^5+8u^4-6u+1)$ (iv) $(-7u^5+8u^4-6u+1)$

(v) $(-5u^5+8u^4-6u+1)$

20. The value of $(4p^4+2p^3+p) - (3p^5-6p^4+2p^2) - (3p^3-p^2-1)$ is

(i) $(-2p^5+10p^4-p^3-p^2+p+1)$ (ii) $(10p^4-p^3-p^2+p+1)$ (iii) $(-6p^5+10p^4-p^3-p^2+p+1)$

(iv) $(-4p^5+10p^4-p^3-p^2+p+1)$ (v) $(-3p^5+10p^4-p^3-p^2+p+1)$

21. The value of $\frac{1}{5}q - \frac{1}{2}q$ is

(i) $(-\frac{3}{10}q)$ (ii) $(-\frac{1}{4}q)$ (iii) $(-\frac{1}{10}q)$ (iv) $(-\frac{1}{2}q)$ (v) $(-\frac{3}{8}q)$

22. The value of $\frac{4}{5}i^2 - \frac{3}{4}i^2 - \frac{2}{3}i^2$ is

(i) $(-\frac{37}{58}i^2)$ (ii) $(-\frac{7}{12}i^2)$ (iii) $(-\frac{37}{60}i^2)$ (iv) $(-\frac{13}{20}i^2)$ (v) $(-\frac{37}{62}i^2)$

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

(i) $\frac{1}{10}b^3$ (ii) $\frac{1}{8}b^3$ (iii) $\frac{3}{10}b^3$ (iv) $(-\frac{1}{10}b^3)$ (v) $\frac{1}{12}b^3$

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

(i) $\frac{1}{4}t^5$ (ii) $(-\frac{1}{4}t^5)$ (iii) $(-\frac{1}{2}t^5)$ (iv) $(-\frac{3}{4}t^5)$ (v) $(-\frac{1}{6}t^5)$

25. The sum of the terms $7, (-8s), (-6), 2s, (-4)$ is

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

26. The sum of the terms $8k, 8, (-8), 5jk, (-1)$ is

(i) $(5jk+8k-1)$ (ii) $(6jk+8k-1)$ (iii) $(4jk+8k-1)$ (iv) $(5jk+10k-1)$ (v) $(5jk+5k-1)$

27. The sum of the terms $6jl, (-6k), 4, 5jk, 5jl$ is

(i) $(5jk+8jl-6k+4)$ (ii) $(5jk+13jl-6k+4)$ (iii) $(4jk+11jl-6k+4)$ (iv) $(5jk+11jl-6k+4)$

(v) $(6jk+11jl-6k+4)$

28. The sum of the expressions $(5m-20), (-m-1), (-5m+1), (m+5), (8m-5)$ is

(i) $(7m-20)$ (ii) $(8m-22)$ (iii) $(8m-17)$ (iv) $(9m-20)$ (v) $(8m-20)$

29. The sum of the expressions $(8ef-3f), (9e-f), (9ef-7), (3ef-3f), (-3ef+3e)$ is

(i) $(17ef+14e-7f-7)$ (ii) $(17ef+10e-7f-7)$ (iii) $(18ef+12e-7f-7)$ (iv) $(16ef+12e-7f-7)$

(v) $(17ef+12e-7f-7)$

30. The sum of the expressions $(4g-8), (-4g+9), (3g+9), (-7g-8), (7g+4)$ is

(i) $(3g+6)$ (ii) $(4g+6)$ (iii) $(3g+4)$ (iv) $(2g+6)$ (v) $(3g+8)$

31. The sum of the expressions $(-4vw-9v-5), (-3vw+3v-4w), (3vw-3v-7w), (2vw+3v-8), (5v-4w+3)$ is

(i) $(-2vw+2v-15w-10)$ (ii) $(-vw-v-15w-10)$ (iii) $(-2vw-4v-15w-10)$

(iv) $(-2vw-v-15w-10)$ (v) $(-3vw-v-15w-10)$

32. The value of $no + (-5no)$ is

(i) $(-3no)$ (ii) $(-6no)$ (iii) $(-5no)$ (iv) $(-4no)$ (v) $(-no)$

33. The value of $(-2o^2p^2) + (-5o^2p^2) + 4o^2p^2 + 6o^2p^2$ is

(i) $3o^2p^2$ (ii) $2o^2p^2$ (iii) $6o^2p^2$ (iv) 0 (v) $4o^2p^2$

34. The value of $8lmn + 6lmn$ is

(i) $11lmn$ (ii) $15lmn$ (iii) $14lmn$ (iv) $13lmn$ (v) $16lmn$

35. The value of $7a^3b^3c^3 + (-5a^3b^3c^3) + 5a^3b^3c^3 + (-3a^3b^3c^3)$ is

(i) $5a^3b^3c^3$ (ii) $4a^3b^3c^3$ (iii) $a^3b^3c^3$ (iv) $7a^3b^3c^3$ (v) $3a^3b^3c^3$

36. The value of $(-7cd-3c-4d) + (6cd-6d+2)$ is

(i) $(-cd-6c-10d+2)$ (ii) $(-3c-10d+2)$ (iii) $(-cd-3c-10d+2)$ (iv) $(-cd-c-10d+2)$

(v) $(-2cd-3c-10d+2)$

37. The value of $(3m^2-8mn^2+6m-9n) + (-2m^2-7mn+n^2+5n)$ is

(i) $(m^2-6mn^2-7mn+6m+n^2-4n)$ (ii) $(m^2-8mn^2-7mn+6m+n^2-4n)$

(iii) $(m^2-10mn^2-7mn+6m+n^2-4n)$ (iv) $(-8mn^2-7mn+6m+n^2-4n)$

(v) $(2m^2-8mn^2-7mn+6m+n^2-4n)$

38. The value of $(8abc-5bc-8b) + (-2a+5b+6)$ is

(i) $(8abc-5a-5bc-3b+6)$ (ii) $(8abc+a-5bc-3b+6)$ (iii) $(9abc-2a-5bc-3b+6)$

(iv) $(7abc-2a-5bc-3b+6)$ (v) $(8abc-2a-5bc-3b+6)$

39. The value of $\frac{2}{5}jk + \frac{1}{3}jk$ is

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

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

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

41. The value of $\frac{4}{5}pqr + \frac{2}{3}pqr$ is

(i) $\frac{4}{3}pqr$ (ii) $\frac{8}{5}pqr$ (iii) $\frac{22}{13}pqr$ (iv) $\frac{22}{17}pqr$ (v) $\frac{22}{15}pqr$

42. The value of $7ef - 7ef$ is

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

43. The value of $4op - 6op - (-9op) - 6op$ is

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

44. The value of $6k^2l^2m^2 - 4k^2l^2m^2$ is

(i) $k^2l^2m^2$ (ii) $5k^2l^2m^2$ (iii) 0 (iv) $3k^2l^2m^2$ (v) $2k^2l^2m^2$

45. The value of $(-6s^2t^2u^2)-(-9s^2t^2u^2)-(-5s^2t^2u^2)-3s^2t^2u^2$ is

(i) $7s^2t^2u^2$ (ii) $5s^2t^2u^2$ (iii) $2s^2t^2u^2$ (iv) $4s^2t^2u^2$ (v) $6s^2t^2u^2$

46. The value of $(-p+q-8)-(7p-5q-5)$ is

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

47. The value of $(-2xy+yz+2z)-(9y+8z-4)$ is

(i) $(-2xy+4yz-9y-6z+4)$ (ii) $(-2xy-yz-9y-6z+4)$ (iii) $(-xy+yz-9y-6z+4)$

(iv) $(-2xy+yz-9y-6z+4)$ (v) $(-3xy+yz-9y-6z+4)$

48. The value of $\frac{1}{2}qr-\frac{3}{4}qr$ is

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

49. The value of $\frac{1}{3}no-\frac{2}{3}no-\frac{1}{3}no-\frac{1}{2}no$ is

(i) $(-\frac{3}{2}no)$ (ii) $(-\frac{7}{8}no)$ (iii) $(-\frac{7}{6}no)$ (iv) $(-\frac{7}{4}no)$ (v) $(-\frac{5}{6}no)$

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

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

Assignment Key

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