EduSahara™ Assignment

Name : Addition and Subtraction of Algebraic Expressions

Chapter : Algebraic Expressions and Identities

Grade : CBSE Grade VIII

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1. The value of $6r+(-3r)$ is

   (i) r (ii) $3r$ (iii) $6r$ (iv) $2r$ (v) $4r$

2. The value of $(-5k)+(-4k)+k+2k$ is

   (i) $(-6k)$ (ii) $(-7k)$ (iii) $(-9k)$ (iv) $(-4k)$ (v) $(-5k)$

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

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

4. The value of $9s^4+(-9s^4)+(-5s^4)+(-8s^4)$ is

   (i) $(-10s^4)$ (ii) $(-12s^4)$ (iii) $(-13s^4)$ (iv) $(-15s^4)$ (v) $(-14s^4)$

5. The value of $(w-7)+(-7w+4)$ is

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

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

   (i) $(-6y^2+15y+11)$ (ii) $(-2y^2+15y+11)$ (iii) $(-4y^2+15y+11)$ (iv) $(-7y^2+15y+11)$

   (v) $(-5y^2+15y+11)$

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

   (i) $(9r^4+8r^3-6r^2+7r+5)$ (ii) $(7r^4+8r^3-6r^2+7r+5)$ (iii) $(8r^4+8r^3-6r^2+7r+5)$

   (iv) $(10r^4+8r^3-6r^2+7r+5)$ (v) $(12r^4+8r^3-6r^2+7r+5)$

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

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

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

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

   (i) $\frac{4}{3}r$ (ii) $\frac{2}{5}r$ (iii) $\frac{4}{5}r$ (iv) $\frac{4}{7}r$ (v) $\frac{6}{5}r$

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

(i) $\frac{11}{6}p$ (ii) $\frac{9}{4}p$ (iii) $\frac{3}{2}p$ (iv) $\frac{13}{8}p$ (v) $\frac{13}{6}p$

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

(i) $\frac{21}{20}i^2$ (ii) $\frac{23}{20}i^2$ (iii) $\frac{23}{18}i^2$ (iv) $\frac{5}{4}i^2$ (v) $\frac{23}{22}i^2$

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

(i) $\frac{107}{58}i^4$ (ii) $\frac{37}{20}i^4$ (iii) $\frac{111}{62}i^4$ (iv) $\frac{107}{60}i^4$ (v) $\frac{109}{60}i^4$

13. The value of $8j - (-4j)$ is

(i) $11j$ (ii) $9j$ (iii) $12j$ (iv) $13j$ (v) $14j$

14. The value of $3f^2 - 7f^2 - 9f^2$ is

(i) $(-13f^2)$ (ii) $(-12f^2)$ (iii) $(-14f^2)$ (iv) $(-15f^2)$ (v) $(-10f^2)$

15. The value of $7v^3 - 6v^3$ is

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

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

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

17. The value of $(-9z+9) - (-7z-8)$ is

(i) $(-5z+17)$ (ii) $(-3z+17)$ (iii) $(-2z+17)$ (iv) 17 (v) $(-z+17)$

18. The value of $(-k^2 - k - 1) - (-k^2 - 2k - 3)$ is

(i) $(k+2)$ (ii) $(4k+2)$ (iii) $(2k+2)$ (iv) 2 (v) $(-k+2)$

19. The value of $(-9g^5 - 4g^3 - 3) - (9g^4 + g^3 + 5g)$ is

(i) $(-11g^5 - 9g^4 - 5g^3 - 5g - 3)$ (ii) $(-10g^5 - 9g^4 - 5g^3 - 5g - 3)$ (iii) $(-9g^5 - 9g^4 - 5g^3 - 5g - 3)$

(iv) $(-7g^5 - 9g^4 - 5g^3 - 5g - 3)$ (v) $(-8g^5 - 9g^4 - 5g^3 - 5g - 3)$

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

(i) $(12m^5 + m^4 - 3m^2 - 4m + 6)$ (ii) $(14m^5 + m^4 - 3m^2 - 4m + 6)$ (iii) $(8m^5 + m^4 - 3m^2 - 4m + 6)$

(iv) $(11m^5 + m^4 - 3m^2 - 4m + 6)$ (v) $(10m^5 + m^4 - 3m^2 - 4m + 6)$

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

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

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

(i) $(-\frac{31}{58}f^2)$ (ii) $(-\frac{1}{2}f^2)$ (iii) $(-\frac{29}{60}f^2)$ (iv) $(-\frac{31}{60}f^2)$ (v) $(-\frac{11}{20}f^2)$

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

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

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

(i) $(-\frac{11}{14}z^5)$ (ii) $(-\frac{3}{4}z^5)$ (iii) $(-\frac{11}{10}z^5)$ (iv) $(-\frac{11}{12}z^5)$ (v) $(-\frac{13}{12}z^5)$

25. The sum of the terms $2g, 1, 5g, 4g, 5$ is

(i) $(11g+6)$ (ii) $(11g+9)$ (iii) $(10g+6)$ (iv) $(12g+6)$ (v) $(11g+4)$

26. The sum of the terms $m, (-9l), (-m), (-7l), (-5)$ is

(i) $(-15l-5)$ (ii) $(-16l-7)$ (iii) $(-16l-5)$ (iv) $(-17l-5)$ (v) $(-16l-3)$

27. The sum of the terms $st, 3, (-7tu), (-4t), 8s$ is

(i) $(st+8s-7tu-4t+3)$ (ii) $(st+11s-7tu-4t+3)$ (iii) $(8s-7tu-4t+3)$ (iv) $(st+5s-7tu-4t+3)$

(v) $(2st+8s-7tu-4t+3)$

28. The sum of the expressions $(8t-1), (-7t+9), (-t+7), (5t+1), (4t-2)$ is

(i) $(8t+14)$ (ii) $(9t+14)$ (iii) $(10t+14)$ (iv) $(9t+16)$ (v) $(9t+12)$

29. The sum of the expressions $(6fg-8f), (-2fg-7g), (9g-7), (-3g+5), (3f+8g)$ is

(i) $(3fg-5f+7g-2)$ (ii) $(4fg-3f+7g-2)$ (iii) $(4fg-5f+7g-2)$ (iv) $(5fg-5f+7g-2)$

(v) $(4fg-8f+7g-2)$

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

(i) $(-6v+12)$ (ii) $(-6v+7)$ (iii) $(-5v+9)$ (iv) $(-6v+9)$ (v) $(-7v+9)$

31. The sum of the expressions $(3no+4n-1), (9n-6o-2), (-4no+3n+7), (-5n-2o+9), (-5n-8o+8)$ is

(i) $(-no+8n-16o+21)$ (ii) $(-no+6n-16o+21)$ (iii) $(-2no+6n-16o+21)$ (iv) $(-no+4n-16o+21)$

(v) $(6n-16o+21)$

32. The value of $(-5st)+(-9st)$ is

(i) $(-15st)$ (ii) $(-16st)$ (iii) $(-12st)$ (iv) $(-13st)$ (v) $(-14st)$

33. The value of $8i^2j^2 + (-8i^2j^2) + 5i^2j^2 + 3i^2j^2$ is

(i) $8i^2j^2$ (ii) $9i^2j^2$ (iii) $7i^2j^2$ (iv) $5i^2j^2$ (v) $10i^2j^2$

34. The value of $6efg + 4efg$ is

(i) $9efg$ (ii) $7efg$ (iii) $12efg$ (iv) $10efg$ (v) $11efg$

35. The value of $(-5g^3h^3i^3) + 2g^3h^3i^3 + (-9g^3h^3i^3) + (-6g^3h^3i^3)$ is

(i) $(-16g^3h^3i^3)$ (ii) $(-17g^3h^3i^3)$ (iii) $(-19g^3h^3i^3)$ (iv) $(-20g^3h^3i^3)$ (v) $(-18g^3h^3i^3)$

36. The value of $(3r+8s+4) + (8rs-5s-15)$ is

(i) $(8rs+6r+3s-11)$ (ii) $(8rs+3s-11)$ (iii) $(9rs+3r+3s-11)$ (iv) $(8rs+3r+3s-11)$

(v) $(7rs+3r+3s-11)$

37. The value of $(-4b^2c^2+8bc^2+9c^2+7c) + (5bc+5c^2+8c+5)$ is

(i) $(-4b^2c^2+11bc^2+5bc+14c^2+15c+5)$ (ii) $(-3b^2c^2+8bc^2+5bc+14c^2+15c+5)$

(iii) $(-5b^2c^2+8bc^2+5bc+14c^2+15c+5)$ (iv) $(-4b^2c^2+8bc^2+5bc+14c^2+15c+5)$

(v) $(-4b^2c^2+5bc^2+5bc+14c^2+15c+5)$

38. The value of $(-7nop+p+5) + (8nop-9np-2op)$ is

(i) $(2nop-9np-2op+p+5)$ (ii) $(nop-7np-2op+p+5)$ (iii) $(-9np-2op+p+5)$

(iv) $(nop-11np-2op+p+5)$ (v) $(nop-9np-2op+p+5)$

39. The value of $(5g+5h^2+7h) + (-f^2-5fgh-7gh) + (-4fg^2h^2+7gh^2-4h^2)$ is

(i) $(-4fg^2h^2-5fgh+7gh^2-7gh+5g+h^2+7h)$ (ii) $(-f^2-2fg^2h^2-5fgh+7gh^2-7gh+5g+h^2+7h)$

(iii) $(-2f^2-4fg^2h^2-5fgh+7gh^2-7gh+5g+h^2+7h)$ (iv) $(-f^2-6fg^2h^2-5fgh+7gh^2-7gh+5g+h^2+7h)$

(v) $(-f^2-4fg^2h^2-5fgh+7gh^2-7gh+5g+h^2+7h)$

40. The value of $\frac{1}{5}de + \frac{1}{4}de$ is

(i) $\frac{11}{20}de$ (ii) $\frac{9}{22}de$ (iii) $\frac{9}{20}de$ (iv) $\frac{7}{20}de$ (v) $\frac{1}{2}de$

41. The value of $\frac{1}{2}o^2p^2 + \frac{2}{3}o^2p^2 + \frac{4}{5}o^2p^2 + \frac{1}{2}o^2p^2$ is

(i) $\frac{33}{13}o^2p^2$ (ii) $\frac{7}{3}o^2p^2$ (iii) $\frac{13}{5}o^2p^2$ (iv) $\frac{37}{15}o^2p^2$ (v) $\frac{41}{17}o^2p^2$

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

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

43. The value of $\frac{1}{2}n^3o^3p^3 + \frac{1}{4}n^3o^3p^3 + \frac{1}{2}n^3o^3p^3 + \frac{1}{2}n^3o^3p^3$ is

(i) $\frac{5}{4}n^3o^3p^3$ (ii) $\frac{9}{4}n^3o^3p^3$ (iii) $\frac{3}{2}n^3o^3p^3$ (iv) $\frac{7}{4}n^3o^3p^3$ (v) $\frac{5}{2}n^3o^3p^3$

44. The value of $(-bc) - 4bc$ is

(i) $(-5bc)$ (ii) $(-7bc)$ (iii) $(-3bc)$ (iv) $(-6bc)$ (v) $(-4bc)$

45. The value of $(-3fg) - (-6fg) - (-9fg) - 8fg$ is

(i) $2fg$ (ii) $7fg$ (iii) $3fg$ (iv) $4fg$ (v) $5fg$

46. The value of $(-7n^2o^2p^2) - (-8n^2o^2p^2)$ is

(i) $4n^2o^2p^2$ (ii) 0 (iii) $2n^2o^2p^2$ (iv) $(-n^2o^2p^2)$ (v) $n^2o^2p^2$

47. The value of $9c^2d^2e^2 - 5c^2d^2e^2 - c^2d^2e^2 - (-5c^2d^2e^2)$ is

(i) $8c^2d^2e^2$ (ii) $6c^2d^2e^2$ (iii) $7c^2d^2e^2$ (iv) $10c^2d^2e^2$ (v) $9c^2d^2e^2$

48. The value of $(-9k+7l-3) - (3kl+6k+6)$ is

(i) $(-3kl-17k+7l-9)$ (ii) $(-3kl-12k+7l-9)$ (iii) $(-4kl-15k+7l-9)$ (iv) $(-3kl-15k+7l-9)$

(v) $(-2kl-15k+7l-9)$

49. The value of $(de^2 - 7de - 6e^2 - 10) - (-7d^2e - 2de^2 - 8d + 2e)$ is

(i) $(7d^2e + de^2 - 7de + 8d - 6e^2 - 2e - 10)$ (ii) $(6d^2e + 3de^2 - 7de + 8d - 6e^2 - 2e - 10)$

(iii) $(7d^2e + 3de^2 - 7de + 8d - 6e^2 - 2e - 10)$ (iv) $(7d^2e + 5de^2 - 7de + 8d - 6e^2 - 2e - 10)$

(v) $(8d^2e + 3de^2 - 7de + 8d - 6e^2 - 2e - 10)$

50. The value of $(6lm + 2n + 6) - (7lm - 4l + 9n)$ is

(i) $(-lm + 7l - 7n + 6)$ (ii) $(-2lm + 4l - 7n + 6)$ (iii) $(-lm + 4l - 7n + 6)$ (iv) $(-lm + 2l - 7n + 6)$

(v) $(4l - 7n + 6)$

51. The value of $(-r^2 + 9rs + 6s^2t) - (2rs - 8s - 9t) - (-7r^2st - 2rst^2 + 3rs)$ is

(i) $(6r^2st - r^2 + 2rst^2 + 4rs + 6s^2t + 8s + 9t)$ (ii) $(7r^2st + r^2 + 2rst^2 + 4rs + 6s^2t + 8s + 9t)$

(iii) $(8r^2st - r^2 + 2rst^2 + 4rs + 6s^2t + 8s + 9t)$ (iv) $(7r^2st - 3r^2 + 2rst^2 + 4rs + 6s^2t + 8s + 9t)$

(v) $(7r^2st - r^2 + 2rst^2 + 4rs + 6s^2t + 8s + 9t)$

52. The value of $\frac{1}{2}uv - \frac{2}{5}uv$ is

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

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

(i) $(-\frac{19}{15}qr)$ (ii) $(-qr)$ (iii) $(-\frac{17}{13}qr)$ (iv) $(-\frac{17}{15}qr)$

54. The value of $\frac{3}{4}r^2s^2t^2 - \frac{1}{2}r^2s^2t^2$ is

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

55. The value of $\frac{1}{2}n^2o^2p^2 - \frac{1}{2}n^2o^2p^2 - \frac{1}{2}n^2o^2p^2 - \frac{1}{2}n^2o^2p^2$ is

(i) $(-n^2o^2p^2)$ (ii) 0 (iii) $2n^2o^2p^2$ (iv) $(-2n^2o^2p^2)$ (v) $(-4n^2o^2p^2)$

Assignment Key

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