

EduSahara™ Learning Center Assignment

Grade : Class VIII, CBSE
Chapter : Algebraic Expressions and Identities
Name : Addition and Subtraction of Algebraic Expressions
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1. The value of $6j + 5j$ is

(i) $14j$ (ii) $10j$ (iii) $8j$ (iv) $12j$ (v) $11j$

2. The value of $4z + (-6z) + 6z + (-9z)$ is

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

3. The value of $(-5t^2) + t^2 + 4t^2$ is

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

4. The value of $5y^4 + (-7y^4) + (-9y^4) + 9y^4$ is

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

5. The value of $(3h - 5) + (-h - 6)$ is

(i) (-11) (ii) $(2h - 11)$ (iii) $(3h - 11)$ (iv) $(5h - 11)$ (v) $(h - 11)$

6. The value of $(-5w^2 - 9w + 7) + (-8w^2 + 4w + 1)$ is

(i) $(-11w^2 - 5w + 8)$ (ii) $(-13w^2 - 5w + 8)$ (iii) $(-14w^2 - 5w + 8)$

(iv) $(-16w^2 - 5w + 8)$ (v) $(-12w^2 - 5w + 8)$

7. The value of $(-5n^3 - 2n + 3) + (n^2 - n + 1)$ is

(i) $(-5n^3 + n^2 - 3n + 4)$

(ii) $(-6n^3 + n^2 - 3n + 4)$

(iii) $(-8n^3 + n^2 - 3n + 4)$

(iv) $(-4n^3 + n^2 - 3n + 4)$

(v) $(-2n^3 + n^2 - 3n + 4)$

The value of $(3f^5 + 9f^4 - 5) + (-5f^4 - 3f^3 + 3)$

8.

+ $(8f^5 - 9f^4 + 3f^3) + (-2f^5 + 6f^3 - 2f^2)$ is

(i) $(6f^5 - 5f^4 + 6f^3 - 2f^2 - 2)$

(ii) $(10f^5 - 5f^4 + 6f^3 - 2f^2 - 2)$

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

(iv) $(12f^5 - 5f^4 + 6f^3 - 2f^2 - 2)$

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

9. The value of $\frac{1}{4}t + \frac{1}{5}t$ is

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

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

(i) $\frac{17}{8}x$ (ii) $\frac{17}{10}x$ (iii) $\frac{19}{10}x$ (iv) $\frac{21}{10}x$ (v) $\frac{7}{4}x$

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

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

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

(i) $\frac{7}{3}j^4$ (ii) $\frac{7}{5}j^4$ (iii) $\frac{9}{5}j^4$ (iv) $\frac{11}{7}j^4$ (v) $\frac{11}{5}j^4$

13. The value of $(-9m) - 8m$ is

(i) $(-19m)$ (ii) $(-15m)$ (iii) $(-16m)$ (iv) $(-17m)$ (v) $(-18m)$

14. The value of $(-4u^2) - (-9u^2) - 8u^2$ is

(i) $(-6u^2)$ (ii) $(-2u^2)$ (iii) $(-4u^2)$ (iv) $(-3u^2)$ (v) 0

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

(i) $15g^3$ (ii) $17g^3$ (iii) $16g^3$ (iv) $19g^3$ (v) $14g^3$

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

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

17. The value of $(-9c + 8) - (4c + 2)$ is

(i) $(-14c + 6)$ (ii) $(-12c + 6)$ (iii) $(-13c + 6)$ (iv) $(-10c + 6)$ (v) $(-15c +$

18. The value of $(t^2 + 7t + 1) - (4t^2 + t - 2)$ is

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

(iv) $(-3t^2 + 6t + 3)$ (v) $(-t^2 + 6t + 3)$

19. The value of $(m^3 + 5m^2 - 9m) - (9m^5 + 8m^2 - 8m)$ is

(i) $(-9m^5 + m^3 - 3m^2 - m)$

(ii) $(-11m^5 + m^3 - 3m^2 - m)$

(iii) $(-10m^5 + m^3 - 3m^2 - m)$

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

(v) $(-8m^5 + m^3 - 3m^2 - m)$

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

(i) $(-2h^4 + h^3 + 7h^2 + 10h - 2)$

(ii) $(h^4 + h^3 + 7h^2 + 10h - 2)$

(iii) $(3h^4 + h^3 + 7h^2 + 10h - 2)$

(iv) $(2h^4 + h^3 + 7h^2 + 10h - 2)$

(v) $(h^3 + 7h^2 + 10h - 2)$

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

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

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

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

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

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

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

(i) $\frac{2}{15}g^5$ (ii) $\frac{4}{15}g^5$ (iii) 0 (iv) $\frac{2}{13}g^5$ (v) $\frac{2}{17}g^5$

The sum of the terms

25. $(-5w), 8w, 9w, (-9), (-7)$ is

(i) $(13w - 16)$ (ii) $(12w - 16)$

(iii) $(12w - 19)$ (iv) $(11w - 16)$

(v) $(12w - 14)$

The sum of the terms

26. $2, 2d, 8de, 8e, d$ is

(i) $(8de + 6d + 8e + 2)$

(ii) $(7de + 3d + 8e + 2)$

(iii) $(8de + 3d + 8e + 2)$

(iv) $(9de + 3d + 8e + 2)$

(v) $(8de + d + 8e + 2)$

The sum of the terms

27. $9eg, (-3fg), 5f, efg, 4efg$ is

(i) $(5efg + 9eg - 3fg + 5f)$

(ii) $(5efg + 12eg - 3fg + 5f)$

(iii) $(5efg + 7eg - 3fg + 5f)$

(iv) $(4efg + 9eg - 3fg + 5f)$

(v) $(6efg + 9eg - 3fg + 5f)$

The sum of the expressions

28. $(p + 9), (-9p - 8), (-9p - 1), (-2p - 1), (7p + 9)$ is

(i) $(-12p + 5)$ (ii) $(-11p + 8)$

(iii) $(-12p + 10)$ (iv) $(-12p + 8)$

(v) $(-13p + 8)$

The sum of the expressions

29. $(5tu + 5)$, $(4t + 5)$, $(3u - 7)$, $(-2tu - 3u)$, $(5tu + 7)$ is
- (i) $(7tu + 4t + 10)$ (ii) $(8tu + 4t + 10)$
- (iii) $(9tu + 4t + 10)$ (iv) $(8tu + 7t + 10)$
- (v) $(8tu + 2t + 10)$
-

The sum of the expressions

30. $(3u - 16)$, $(9u + 12)$, $(7u + 3)$, $(-4u - 8)$, $(9u + 9)$ is
- (i) $25u$ (ii) $24u$ (iii) $21u$ (iv) $23u$ (v) $26u$
-

The sum of the expressions

31. $(-7kl - 6l - 6)$, $(-4k + 6l - 2)$, $(-7kl + 7l + 9)$,
 $(5k + 2l - 6)$, $(-6kl + 5k - 4l)$ is
- (i) $(-21kl + 6k + 5l - 5)$
- (ii) $(-20kl + 3k + 5l - 5)$
- (iii) $(-20kl + 6k + 5l - 5)$
- (iv) $(-19kl + 6k + 5l - 5)$
- (v) $(-20kl + 9k + 5l - 5)$
-

The value of

32. $6no + (-2no)$ is
- (i) $3no$ (ii) $5no$ (iii) $6no$
- (iv) $4no$ (v) no
-

The value of

33. $p^2q^2 + 8p^2q^2 + p^2q^2 + 5p^2q^2$ is
- (i) $16p^2q^2$ (ii) $15p^2q^2$ (iii) $14p^2q^2$
- (iv) $18p^2q^2$ (v) $12p^2q^2$
-

The value of

34. $(-3lmn) + lmn$ is

(i) $(-3lmn)$ (ii) 0 (iii) $(-lmn)$

(iv) $(-5lmn)$ (v) $(-2lmn)$

The value of

35. $(-7s^3t^3u^3) + 6s^3t^3u^3 + 4s^3t^3u^3 + (-2s^3t^3u^3)$ is

(i) $2s^3t^3u^3$ (ii) $3s^3t^3u^3$ (iii) $s^3t^3u^3$

(iv) $(-s^3t^3u^3)$ (v) 0

The value of

36. $(-6m + 3n + 4) + (9mn + 8m - 2)$ is

(i) $(9mn - m + 3n + 2)$

(ii) $(10mn + 2m + 3n + 2)$

(iii) $(9mn + 5m + 3n + 2)$

(iv) $(9mn + 2m + 3n + 2)$

(v) $(8mn + 2m + 3n + 2)$

The value of

37. $(-9e^2f^2 - 2e^2f + 8ef^2 - 7f) + (9e^2f - 5ef^2 - 5e - 8)$ is

(i) $(-9e^2f^2 + 5e^2f + 3ef^2 - 5e - 7f - 8)$

(ii) $(-9e^2f^2 + 10e^2f + 3ef^2 - 5e - 7f - 8)$

(iii) $(-8e^2f^2 + 7e^2f + 3ef^2 - 5e - 7f - 8)$

(iv) $(-9e^2f^2 + 7e^2f + 3ef^2 - 5e - 7f - 8)$

(v) $(-10e^2f^2 + 7e^2f + 3ef^2 - 5e - 7f - 8)$

The value of

38. $(5kl - 6km + 4m) + (6kl - 3km - 5lm)$ is

(i) $(12kl - 9km - 5lm + 4m)$

(ii) $(10kl - 9km - 5lm + 4m)$

(iii) $(11kl - 7km - 5lm + 4m)$

(iv) $(11kl - 9km - 5lm + 4m)$

(v) $(11kl - 12km - 5lm + 4m)$

The value of

39. $(-6x^2z + 7y^2z^2 + 9z^2) + (6x^2yz^2 - 3x^2yz - 9x^2z) + (-4x^2y^2 + 5x^2z$

(i) $(-4x^2y^2 + 9x^2yz^2 - 3x^2yz + 5x^2z^2 - 15x^2z + 7y^2z^2 - 3y + 9z^2)$

(ii) $(-4x^2y^2 + 6x^2yz^2 - 3x^2yz + 5x^2z^2 - 15x^2z + 7y^2z^2 - 3y + 9z^2)$

(iii) $(-3x^2y^2 + 6x^2yz^2 - 3x^2yz + 5x^2z^2 - 15x^2z + 7y^2z^2 - 3y + 9z^2)$

(iv) $(-4x^2y^2 + 4x^2yz^2 - 3x^2yz + 5x^2z^2 - 15x^2z + 7y^2z^2 - 3y + 9z^2)$

(v) $(-5x^2y^2 + 6x^2yz^2 - 3x^2yz + 5x^2z^2 - 15x^2z + 7y^2z^2 - 3y + 9z^2)$

40. The value of $\frac{3}{4}cd + \frac{2}{3}cd$ is

(i) $\frac{5}{4}cd$ (ii) $\frac{17}{12}cd$ (iii) $\frac{17}{10}cd$

(iv) $\frac{19}{12}cd$ (v) $\frac{17}{14}cd$

41. The value of $\frac{1}{2}m^2n^2 + \frac{1}{2}m^2n^2 + \frac{1}{2}m^2n^2 + \frac{1}{5}m^2n^2$ is

(i) $\frac{17}{10}m^2n^2$ (ii) $\frac{19}{12}m^2n^2$ (iii) $\frac{3}{2}m^2n^2$

(iv) $\frac{15}{8}m^2n^2$ (v) $\frac{19}{10}m^2n^2$

42. The value of $\frac{1}{3}wxy + \frac{2}{3}wxy$ is

(i) $2 w x y$ (ii) $4 w x y$ (iii) $(-2 w x y)$

(iv) $w x y$ (v) 0

43. The value of $\frac{3}{5} v^3 w^3 x^3 + \frac{1}{5} v^3 w^3 x^3 + \frac{1}{2} v^3 w^3 x^3 + \frac{4}{5} v^3 w^3 x^3$ is

(i) $\frac{23}{10} v^3 w^3 x^3$ (ii) $\frac{21}{10} v^3 w^3 x^3$ (iii) $\frac{19}{10} v^3 w^3 x^3$

(iv) $\frac{17}{8} v^3 w^3 x^3$ (v) $\frac{25}{12} v^3 w^3 x^3$

The value of

44. $8 b c - (-b c)$ is

(i) $10 b c$ (ii) $11 b c$ (iii) $6 b c$

(iv) $8 b c$ (v) $9 b c$

The value of

45. $(-4 v w) - (-2 v w) - (-3 v w) - (-v w)$ is

(i) $v w$ (ii) $3 v w$ (iii) $4 v w$

(iv) $(-v w)$ (v) $2 v w$

The value of

46. $5 k^2 l^2 m^2 - (-5 k^2 l^2 m^2)$ is

(i) $9 k^2 l^2 m^2$ (ii) $8 k^2 l^2 m^2$ (iii) $13 k^2 l^2 m^2$

(iv) $10 k^2 l^2 m^2$ (v) $11 k^2 l^2 m^2$

The value of

47. $(-9 w^2 x^2 y^2) - (-3 w^2 x^2 y^2) - 4 w^2 x^2 y^2 - (-7 w^2 x^2 y^2)$ is

(i) $(-3 w^2 x^2 y^2)$ (ii) $(-2 w^2 x^2 y^2)$ (iii) $(-4 w^2 x^2 y^2)$

(iv) $(-6 w^2 x^2 y^2)$ (v) 0

The value of

48. $(8st - 4s - 7t) - (-7st + t + 4)$ is

(i) $(15st - 6s - 8t - 4)$

(ii) $(16st - 4s - 8t - 4)$

(iii) $(15st - 4s - 8t - 4)$

(iv) $(15st - 2s - 8t - 4)$

(v) $(14st - 4s - 8t - 4)$

The value of

49. $(-5k^2l^2 + k^2 - 2kl^2 - 5kl) - (k^2l^2 + 2k^2 + 8kl + 4k)$ is

(i) $(-7k^2l^2 - k^2 - 2kl^2 - 13kl - 4k)$

(ii) $(-5k^2l^2 - k^2 - 2kl^2 - 13kl - 4k)$

(iii) $(-6k^2l^2 + 2k^2 - 2kl^2 - 13kl - 4k)$

(iv) $(-6k^2l^2 - 3k^2 - 2kl^2 - 13kl - 4k)$

(v) $(-6k^2l^2 - k^2 - 2kl^2 - 13kl - 4k)$

The value of

50. $(-5jkl + 3k - 8l) - (-5jkl - 4l - 5)$ is

(i) $(2k - 4l + 5)$ (ii) $(3k - 7l + 5)$ (iii) $(4k - 4l + 5)$

(iv) $(3k - 2l + 5)$ (v) $(3k - 4l + 5)$

The value of

51. $(4j^2k^2l^2 - 2j^2kl + 5jkl^2) - (-j^2 + 5jkl - 6jl) - (-3j^2l^2 + 8j^2 - 9jl)$ is

(i) $(4j^2k^2l^2 - 5j^2kl + 3j^2l^2 - 7j^2 + 5jkl^2 - 5jkl + 15jl)$

(ii) $(4j^2k^2l^2 - 2j^2kl + 3j^2l^2 - 7j^2 + 5jkl^2 - 5jkl + 15jl)$

(iii) $(5j^2k^2l^2 - 2j^2kl + 3j^2l^2 - 7j^2 + 5jkl^2 - 5jkl + 15jl)$

(iv) $(4j^2k^2l^2 + j^2kl + 3j^2l^2 - 7j^2 + 5jkl^2 - 5jkl + 15jl)$

(v) $(3j^2k^2l^2 - 2j^2kl + 3j^2l^2 - 7j^2 + 5jkl^2 - 5jkl + 15jl)$

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

(i) (-1) (ii) (-3) (iii) 3

(iv) 0 (v) 1

53. The value of $\frac{1}{2}hi - \frac{1}{2}hi - \frac{1}{2}hi - \frac{1}{3}hi$ is

(i) $(-\frac{5}{4}hi)$ (ii) $(-\frac{7}{6}hi)$ (iii) $(-\frac{5}{6}hi)$

(iv) $(-\frac{1}{2}hi)$ (v) $(-\frac{5}{8}hi)$

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

(i) 0 (ii) (-1) (iii) 3

(iv) (-2) (v) 1

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

(i) $k^2l^2m^2$ (ii) $(-2k^2l^2m^2)$ (iii) $(-k^2l^2m^2)$

(iv) 0 (v) $(-3k^2l^2m^2)$

Assignment Key

- 1) (v)
- 2) (v)
- 3) (iv)
- 4) (v)
- 5) (ii)
- 6) (ii)
- 7) (i)
- 8) (iii)
- 9) (iii)
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- 45) (v)
- 46) (iv)
- 47) (i)
- 48) (iii)
- 49) (v)
- 50) (v)
- 51) (ii)
- 52) (iv)
- 53) (iii)
- 54) (i)
- 55) (iii)