EduSahara™ Learning Center Assignment

Grade : Class VII, ICSE
Chapter : Algebraic Expressions
Name : Addition and Subtraction of Algebraic Expressions
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1. The sum of the terms
(-9), 1, (-7), 9, 4 is

(i) (-2) (ii) (-4) (iii) (-1) (iv) 1 (v) (-3)

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2. The sum of the terms
$(-q)$, $9pq$, $(-5q)$, $5p$, $(-4p)$ is

(i) $(9pq - p - 6q)$ (ii) $(8pq + p - 6q)$

(iii) $(9pq + p - 6q)$ (iv) $(10pq + p - 6q)$

(v) $(9pq + 4p - 6q)$

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3. The sum of the terms
ghi, 4, $(-7h)$, $5gi$, $(-3gi)$ is

(i) $(2gi - 7h + 4)$

(ii) $(ghi - gi - 7h + 4)$

(iii) $(2ghi + 2gi - 7h + 4)$

(iv) $(ghi + 2gi - 7h + 4)$

(v) $(ghi + 4gi - 7h + 4)$

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4. The sum of the expressions
$(-8w - 8)$, $(-3w + 6)$, $(-3w + 3)$, $(-9w - 2)$, $(5w - 16)$ is

(i) $(-19w - 17)$ (ii) $(-17w - 17)$

(iii) $(-18w - 15)$ (iv) $(-18w - 20)$

(v) $(-18w - 17)$

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5. The sum of the expressions

$(9u+7v)$, $(-3uv+7v)$, $(3uv-4u)$, $(4uv+5v)$, $(-8u-7v)$ is

(i) $(3uv-3u+12v)$ (ii) $(4uv-6u+12v)$

(iii) $(4uv-3u+12v)$ (iv) $(5uv-3u+12v)$

(v) $(4uv-u+12v)$

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6. The sum of the expressions
$(-p+4)$, $(3p-16)$, $(8p-3)$, $(2p+8)$, $(4p-6)$ is

(i) $(16p-11)$ (ii) $(17p-13)$

(iii) $(15p-13)$ (iv) $(16p-13)$

(v) $(16p-15)$

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7. The sum of the expressions
$(-8kl+4k+6l)$, $(-7kl-k+4)$, $(9kl-4k-2)$,
$(6kl-9k+10)$, $(-6k+5l+7)$ is

(i) $(-16k+8l+19)$ (ii) $(-16k+11l+19)$

(iii) $(-16k+14l+19)$ (iv) $(-15k+11l+19)$

(v) $(-17k+11l+19)$

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8. The value of
$wx + (-2wx)$ is

(i) 0 (ii) wx (iii) $(-wx)$

(iv) $(-2wx)$ (v) $(-4wx)$

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9. The value of
$(-8f^2g^2) + 4f^2g^2 + (-7f^2g^2) + 9f^2g^2$ is

(i) $(-4f^2g^2)$ (ii) $(-f^2g^2)$ (iii) f^2g^2

(iv) $(-3f^2g^2)$ (v) $(-2f^2g^2)$

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10. The value of
$5\,def + (-5\,def)$ is

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

(iv) 0 (v) 3

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11. The value of
$6j^3k^3l^3 + 5j^3k^3l^3 + 2j^3k^3l^3 + (-2j^3k^3l^3)$ is

(i) $9j^3k^3l^3$ (ii) $12j^3k^3l^3$ (iii) $11j^3k^3l^3$

(iv) $14j^3k^3l^3$ (v) $10j^3k^3l^3$

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12. The value of
$(6kl - 7k + 8) + (-2kl + 6k + 9l)$ is

(i) $(5kl - k + 9l + 8)$

(ii) $(4kl - k + 9l + 8)$

(iii) $(3kl - k + 9l + 8)$

(iv) $(4kl + 2k + 9l + 8)$

(v) $(4kl - 3k + 9l + 8)$

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13. The value of
$(8ij - 4jk - k) + (9ik + 6k - 7)$ is

(i) $(8ij + 6ik - 4jk + 5k - 7)$

(ii) $(8ij + 9ik - 4jk + 5k - 7)$

(iii) $(8ij + 12ik - 4jk + 5k - 7)$

(iv) $(9ij + 9ik - 4jk + 5k - 7)$

(v) $(7ij + 9ik - 4jk + 5k - 7)$

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14. The value of $\frac{2}{5}de + \frac{1}{2}de$ is

(i) $\frac{9}{8}de$ (ii) $\frac{7}{10}de$ (iii) $\frac{3}{4}de$

(iv) $\frac{9}{10}de$ (v) $\frac{11}{10}de$

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15. The value of $\frac{1}{2}nop + \frac{1}{4}nop$ is

(i) $\frac{5}{4}nop$ (ii) $\frac{1}{2}nop$ (iii) $\frac{3}{2}nop$

(iv) $\frac{3}{4}nop$ (v) $\frac{1}{4}nop$

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16. The value of $8bc - (-4bc)$ is

(i) $12bc$ (ii) $10bc$ (iii) $13bc$

(iv) $14bc$ (v) $11bc$

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17. The value of $(-6de) - (-8de) - 2de - (-4de)$ is

(i) $4de$ (ii) $7de$ (iii) $3de$

(iv) $5de$ (v) $2de$

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18. The value of $3j^2k^2l^2 - 5j^2k^2l^2$ is

(i) $(-j^2k^2l^2)$ (ii) $(-2j^2k^2l^2)$ (iii) $(-4j^2k^2l^2)$

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

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19. The value of $(9o - 9p + 3) - (-6op + 8p - 13)$ is

(i) $(5op + 9o - 17p + 16)$

(ii) $(6op + 7o - 17p + 16)$

(iii) $(6op + 9o - 17p + 16)$

(iv) $(6op + 11o - 17p + 16)$

(v) $(7\,o\,p + 9\,o - 17\,p + 16)$

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20. The value of $(-2\,a\,b\,c - 4\,a\,c - 4) - (-8\,a\,b\,c + 8\,a + 7\,b\,c)$ is

(i) $(6\,a\,b\,c - 2\,a\,c - 8\,a - 7\,b\,c - 4)$

(ii) $(6\,a\,b\,c - 6\,a\,c - 8\,a - 7\,b\,c - 4)$

(iii) $(5\,a\,b\,c - 4\,a\,c - 8\,a - 7\,b\,c - 4)$

(iv) $(6\,a\,b\,c - 4\,a\,c - 8\,a - 7\,b\,c - 4)$

(v) $(7\,a\,b\,c - 4\,a\,c - 8\,a - 7\,b\,c - 4)$

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21. The value of $\frac{1}{3}\,h\,i - \frac{1}{2}\,h\,i$ is

(i) $(-\frac{1}{4}\,h\,i)$ (ii) $(-\frac{1}{6}\,h\,i)$ (iii) $\frac{1}{6}\,h\,i$

(iv) $(-\frac{1}{8}\,h\,i)$ (v) $(-\frac{1}{2}\,h\,i)$

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

(i) $(-\frac{43}{30}\,f\,g)$ (ii) $(-\frac{41}{30}\,f\,g)$ (iii) $(-\frac{41}{32}\,f\,g)$

(iv) $(-\frac{41}{28}\,f\,g)$ (v) $(-\frac{13}{10}\,f\,g)$

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23. The value of $\frac{1}{2}\,c^2\,d^2\,e^2 - \frac{1}{3}\,c^2\,d^2\,e^2$ is

(i) $\frac{1}{2}\,c^2\,d^2\,e^2$ (ii) $(-\frac{1}{6}\,c^2\,d^2\,e^2)$ (iii) $\frac{1}{6}\,c^2\,d^2\,e^2$

(iv) $\frac{1}{4}\,c^2\,d^2\,e^2$ (v) $\frac{1}{8}\,c^2\,d^2\,e^2$

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24. The value of $9\,v + (-9\,v)$ is

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

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25. The value of $(-6\,z) + (-5\,z) + (-5\,z) + 6\,z$ is

(i) $(-9\,z)$ (ii) $(-8\,z)$ (iii) $(-11\,z)$ (iv) $(-13\,z)$ (v) $(-10\,z)$

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26. The value of $(-9n^2) + (-6n^2) + 7n^2$ is

(i) $(-8n^2)$ (ii) $(-7n^2)$ (iii) $(-9n^2)$ (iv) $(-6n^2)$ (v) $(-11n^2)$

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27. The value of $9q^4 + 4q^4 + (-4q^4) + (-3q^4)$ is

(i) $9q^4$ (ii) $5q^4$ (iii) $7q^4$ (iv) $4q^4$ (v) $6q^4$

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28. The value of $(6x - 3) + (-3x - 2)$ is

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

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29. The value of $(9y^2 - 9y - 2) + (-5y^2 + 5y + 7)$ is

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

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

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

(i) $(-h^5 - 9h^4 + 3h^3 - 5h^2)$

(ii) $(-4h^5 - 9h^4 + 3h^3 - 5h^2)$

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

(iv) $(h^5 - 9h^4 + 3h^3 - 5h^2)$

(v) $(-2h^5 - 9h^4 + 3h^3 - 5h^2)$

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31. The value of $\frac{2}{5}j + \frac{1}{2}j$ is

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

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

(i) $\frac{13}{6}y$ (ii) $\frac{23}{10}y$ (iii) $\frac{71}{32}y$ (iv) $\frac{9}{4}y$ (v) $\frac{67}{30}y$

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

(i) $\frac{26}{15}t^2$ (ii) $\frac{8}{5}t^2$ (iii) $2t^2$ (iv) $\frac{28}{15}t^2$ (v) $\frac{26}{17}t^2$

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

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

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35. The value of $(-7p) - 9p$ is

(i) $(-17p)$ (ii) $(-19p)$ (iii) $(-16p)$ (iv) $(-14p)$ (v) $(-15p)$

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36. The value of $(-8p^2) - p^2 - p^2$ is

(i) $(-7p^2)$ (ii) $(-11p^2)$ (iii) $(-13p^2)$ (iv) $(-10p^2)$ (v) $(-9p^2)$

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37. The value of $7r^3 - 7r^3$ is

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

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38. The value of $(-8x^5) - 7x^5 - (-7x^5)$ is

(i) $(-11x^5)$ (ii) $(-7x^5)$ (iii) $(-5x^5)$ (iv) $(-9x^5)$ (v) $(-8x^5)$

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39. The value of $(6v + 8) - (-3v - 7)$ is

(i) $(8v + 15)$ (ii) $(7v + 15)$ (iii) $(10v + 15)$ (iv) $(12v + 15)$ (v) $(9v + 15)$

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

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

(iv) $(5j^2+4j+6)$ (v) $(7j^2+4j+6)$

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41. The value of $(-3d^5+4d^4-d^3)-(-2d^4+9d^2+5d)$ is

(i) $(-5d^5+6d^4-d^3-9d^2-5d)$

(ii) $(-3d^5+6d^4-d^3-9d^2-5d)$

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

(iv) $(-4d^5+6d^4-d^3-9d^2-5d)$

(v) $(-d^5+6d^4-d^3-9d^2-5d)$

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42. The value of $\frac{1}{3}w-\frac{3}{5}w$ is

(i) $(-\frac{4}{17}w)$ (ii) $(-\frac{2}{5}w)$ (iii) $(-\frac{2}{15}w)$ (iv) $(-\frac{4}{15}w)$ (v) $(-\frac{4}{13}w)$

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

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

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

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

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

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

Assignment Key

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

40) (i)
41) (ii)
42) (iv)
43) (iv)
44) (ii)
45) (iii)