EduSahara™ Assignment

Name : Multiplication of Algebraic Expressions

Chapter : Algebraic Expressions and Identities

Grade : CBSE Grade VIII

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1. The value of $z \times z \times z$ is

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

2. The value of $(-2q) \times 4q \times (-4) \times q$ is

   (i) $30q^3$ (ii) $33q^3$ (iii) $31q^3$ (iv) $32q^3$ (v) $35q^3$

3. The value of $4g^2 \times 9g$ is

   (i) $36g^3$ (ii) $38g^3$ (iii) $37g^3$ (iv) $33g^3$ (v) $35g^3$

4. The value of $(-2j^2) \times 4j \times 2j^2$ is

   (i) $(-13j^5)$ (ii) $(-15j^5)$ (iii) $(-18j^5)$ (iv) $(-17j^5)$ (v) $(-16j^5)$

5. The value of $(8b-5) \times (-6b+8)$ is

   (i) $(-45b^2+94b-40)$ (ii) $(-49b^2+94b-40)$ (iii) $(-48b^2+94b-40)$ (iv) $(-47b^2+94b-40)$

   (v) $(-51b^2+94b-40)$

6. The value of $(-7c^2-3c-7) \times (-7c^2+3c-6)$ is

   (i) $(50c^4+82c^2-3c+42)$ (ii) $(49c^4+82c^2-3c+42)$ (iii) $(51c^4+82c^2-3c+42)$

   (iv) $(47c^4+82c^2-3c+42)$ (v) $(48c^4+82c^2-3c+42)$

7. The value of $(-7u^2+6u-5) \times (-6u^2-5u+6)$ is

   (i) $(42u^4-u^3-42u^2+61u-30)$ (ii) $(43u^4-u^3-42u^2+61u-30)$ (iii) $(39u^4-u^3-42u^2+61u-30)$

   (iv) $(41u^4-u^3-42u^2+61u-30)$ (v) $(44u^4-u^3-42u^2+61u-30)$

8. The value of $(9u^2+9u) \times (-9u^2-3) \times (2u^2+6u)$ is

   (i) $(-162u^6-648u^5-540u^4-216u^3-162u^2)$ (ii) $(-160u^6-648u^5-540u^4-216u^3-162u^2)$

   (iii) $(-161u^6-648u^5-540u^4-216u^3-162u^2)$ (iv) $(-164u^6-648u^5-540u^4-216u^3-162u^2)$

   (v) $(-163u^6-648u^5-540u^4-216u^3-162u^2)$

9. The value of $\frac{3}{4} \times \frac{1}{2} i \times \frac{1}{5}$ is

(i) $\frac{3}{40} i$ (ii) $\frac{3}{38} i$ (iii) $\frac{1}{14} i$ (iv) $\frac{1}{40} i$ (v) $\frac{1}{8} i$

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

(i) $\frac{1}{52} q^2$ (ii) $\frac{1}{48} q^2$ (iii) $\frac{1}{50} q^2$ (iv) $(-\frac{1}{50} q^2)$ (v) $\frac{3}{50} q^2$

11. The value of $\frac{2}{5} v^2 \times \frac{1}{2} v$ is

(i) $(-\frac{1}{5} v^3)$ (ii) $\frac{1}{5} v^3$ (iii) $\frac{3}{5} v^3$ (iv) $\frac{1}{3} v^3$ (v) $\frac{1}{7} v^3$

12. The value of $\frac{3}{4} p \times \frac{2}{3} p \times \frac{1}{2} p$ is

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

13. The product of the terms $(-2), (-3wx), 3x, (-2), (-3)$ is

(i) $111wx^2$ (ii) $109wx^2$ (iii) $105wx^2$ (iv) $107wx^2$ (v) $108wx^2$

14. The product of the terms $(-q), 2r, 3qs, (-5), (-4)$ is

(i) $(-121q^2rs)$ (ii) $(-123q^2rs)$ (iii) $(-119q^2rs)$ (iv) $(-118q^2rs)$ (v) $(-120q^2rs)$

15. The product of the terms $1, 3, (-1), 3, 1$ is

(i) (-10) (ii) (-11) (iii) (-8) (iv) (-9) (v) (-7)

16. The value of $5cd \times 5$ is

(i) $22cd$ (ii) $26cd$ (iii) $28cd$ (iv) $24cd$ (v) $25cd$

17. The value of $5h \times 6 \times 3gh \times 6g$ is

(i) $540g^2h^2$ (ii) $541g^2h^2$ (iii) $538g^2h^2$ (iv) $539g^2h^2$ (v) $542g^2h^2$

18. The value of $(-8u^2v^2w^2) \times (-2uv)$ is

(i) $17u^3v^3w^2$ (ii) $14u^3v^3w^2$ (iii) $15u^3v^3w^2$ (iv) $19u^3v^3w^2$ (v) $16u^3v^3w^2$

19. The value of $8m \times (-2ln) \times 6 \times (-2m)$ is

(i) $195lm^2n$ (ii) $191lm^2n$ (iii) $192lm^2n$ (iv) $190lm^2n$ (v) $193lm^2n$

20. The value of $4(5x-3)$ is

(i) $(20x-10)$ (ii) $(19x-12)$ (iii) $(20x-15)$ (iv) $(20x-12)$ (v) $(21x-12)$

21. The value of $3st(-4t-1)$ is

(i) $(-13st^2-3st)$ (ii) $(-11st^2-3st)$ (iii) $(-12st^2-3st)$ (iv) $(-12st^2-6st)$ (v) $(-12st^2)$

22. The value of $(-4gh)(-4g^2h-5ghi)$ is

(i) $(16g^3h^2+17g^2h^2i)$ (ii) $(17g^3h^2+20g^2h^2i)$ (iii) $(16g^3h^2+23g^2h^2i)$ (iv) $(15g^3h^2+20g^2h^2i)$

(v) $(16g^3h^2+20g^2h^2i)$

23. The value of $(-2pr)(5p^2-5pq^2r^2+3r^2)$ is

(i) $(-9p^3r+10p^2q^2r^3-6pr^3)$ (ii) $(-10p^3r+12p^2q^2r^3-6pr^3)$ (iii) $(-11p^3r+10p^2q^2r^3-6pr^3)$

(iv) $(-10p^3r+10p^2q^2r^3-6pr^3)$ (v) $(-10p^3r+7p^2q^2r^3-6pr^3)$

24. The value of $\frac{1}{4}(\frac{1}{5}xy+\frac{3}{4}y)$ is

(i) $(\frac{1}{20}xy+\frac{1}{16}y)$ (ii) $(\frac{1}{22}xy+\frac{3}{16}y)$ (iii) $(\frac{1}{20}xy+\frac{3}{16}y)$ (iv) $(\frac{1}{18}xy+\frac{3}{16}y)$ (v) $(\frac{1}{20}xy+\frac{5}{16}y)$

25. The value of $\frac{2}{3}d(\frac{3}{4}c^2d+\frac{1}{3})$ is

(i) $\frac{1}{2}c^2d^2$ (ii) $(c^2d^2+\frac{2}{9}d)$ (iii) $(\frac{1}{2}c^2d^2+\frac{4}{9}d)$ (iv) $(\frac{1}{4}c^2d^2+\frac{2}{9}d)$ (v) $(\frac{1}{2}c^2d^2+\frac{2}{9}d)$

26. The value of $\frac{2}{3}(\frac{1}{2}xz^2+\frac{1}{2}yz^2)$ is

(i) $(\frac{1}{3}xz^2+\frac{1}{3}yz^2)$ (ii) $(\frac{1}{5}xz^2+\frac{1}{3}yz^2)$ (iii) $(\frac{1}{3}xz^2-\frac{1}{3}yz^2)$ (iv) $(\frac{1}{3}xz^2+yz^2)$ (v) $(xz^2+\frac{1}{3}yz^2)$

27. The value of $\frac{1}{2}vx(\frac{2}{3}v^2w^2x^2+\frac{2}{3}v^2w^2+\frac{2}{3}v^2)$ is

(i) $(\frac{1}{3}v^3w^2x^3+\frac{1}{3}v^3w^2x+\frac{1}{3}v^3x)$ (ii) $(\frac{1}{3}v^3w^2x^3-\frac{1}{3}v^3w^2x+\frac{1}{3}v^3x)$ (iii) $(v^3w^2x^3+\frac{1}{3}v^3w^2x+\frac{1}{3}v^3x)$

(iv) $(\frac{1}{5}v^3w^2x^3+\frac{1}{3}v^3w^2x+\frac{1}{3}v^3x)$ (v) $(\frac{1}{3}v^3w^2x^3+v^3w^2x+\frac{1}{3}v^3x)$

28. The value of $(-3mn+3)\times(-6mn-7m)$ is

(i) $(18m^2n^2+23m^2n-18mn-21m)$ (ii) $(18m^2n^2+18m^2n-18mn-21m)$

(iii) $(18m^2n^2+21m^2n-18mn-21m)$ (iv) $(17m^2n^2+21m^2n-18mn-21m)$

(v) $(19m^2n^2+21m^2n-18mn-21m)$

29. The value of $(6s^2-4st)\times(9s^2t+8st^2)$ is

(i) $(54s^4t+12s^3t^2-32s^2t^3)$ (ii) $(55s^4t+12s^3t^2-32s^2t^3)$ (iii) $(53s^4t+12s^3t^2-32s^2t^3)$

(iv) $(54s^4t+14s^3t^2-32s^2t^3)$ (v) $(54s^4t+10s^3t^2-32s^2t^3)$

30. The value of $(3mn-7n)\times(3mn-10)\times(3n-9)$ is

(i) $(26m^2n^3-81m^2n^2-63mn^3+99mn^2+270mn+210n^2-630n)$

(ii) $(27m^2n^3-81m^2n^2-63mn^3+99mn^2+270mn+210n^2-630n)$

(iii) $(27m^2n^3-83m^2n^2-63mn^3+99mn^2+270mn+210n^2-630n)$

(iv) $(27m^2n^3-78m^2n^2-63mn^3+99mn^2+270mn+210n^2-630n)$

(v) $(28m^2n^3-81m^2n^2-63mn^3+99mn^2+270mn+210n^2-630n)$

31. The value of $\frac{1}{2}j\times\frac{1}{2}jk$ is

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

32. The value of $\frac{1}{2}s\times\frac{4}{5}s\times\frac{1}{2}rs\times\frac{3}{4}r$ is

(i) $\frac{3}{22}r^2s^3$ (ii) $\frac{1}{4}r^2s^3$ (iii) $\frac{1}{20}r^2s^3$ (iv) $\frac{3}{20}r^2s^3$ (v) $\frac{1}{6}r^2s^3$

33. The value of $\frac{2}{5}f^2h^2\times\frac{2}{3}fg^2h^2$ is

(i) $\frac{4}{17}f^3g^2h^4$ (ii) $\frac{2}{5}f^3g^2h^4$ (iii) $\frac{4}{15}f^3g^2h^4$ (iv) $\frac{4}{13}f^3g^2h^4$ (v) $\frac{2}{15}f^3g^2h^4$

34. The value of $\frac{1}{4}m\times\frac{1}{2}\times\frac{1}{4}l\times\frac{4}{5}m$ is

(i) $\frac{1}{40}lm^2$ (ii) $\frac{1}{38}lm^2$ (iii) $(-\frac{1}{40}lm^2)$ (iv) $\frac{3}{40}lm^2$ (v) $\frac{1}{42}lm^2$

Assignment Key

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

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