EduSahara™ Assignment

Name : Multiplication of Algebraic Expressions

Chapter : Algebraic Expressions

Grade : ICSE Grade VII

1. The product of the terms $g, (-3gh), (-gh), (-2), (-3)$ is

   (i) $16g^3h^2$ (ii) $19g^3h^2$ (iii) $18g^3h^2$ (iv) $21g^3h^2$ (v) $17g^3h^2$

2. The product of the terms $(-u), 3v, 4, 3, (-1)$ is

   (i) $39uv$ (ii) $34uv$ (iii) $36uv$ (iv) $35uv$ (v) $37uv$

3. The product of the terms $(-4), (-1), (-3), 1, (-5)$ is

   (i) 59 (ii) 58 (iii) 63 (iv) 61 (v) 60

4. The value of $(-2u) \times 9v$ is

   (i) $(-18uv)$ (ii) $(-15uv)$ (iii) $(-21uv)$ (iv) $(-19uv)$ (v) $(-17uv)$

5. The value of $5k \times 3k \times (-4) \times (-7jk)$ is

   (i) $418jk^3$ (ii) $422jk^3$ (iii) $420jk^3$ (iv) $421jk^3$ (v) $419jk^3$

6. The value of $4s^2 \times (-4s^2u^2)$ is

   (i) $(-16s^4u^2)$ (ii) $(-18s^4u^2)$ (iii) $(-14s^4u^2)$ (iv) $(-17s^4u^2)$ (v) $(-15s^4u^2)$

7. The value of $5q \times (-8pqr) \times (-6p) \times (-9r)$ is

   (i) $(-2160p^2q^2r^2)$ (ii) $(-2162p^2q^2r^2)$ (iii) $(-2161p^2q^2r^2)$ (iv) $(-2159p^2q^2r^2)$ (v) $(-2157p^2q^2r^2)$

8. The value of $3(gh-4g)$ is

   (i) $(3gh-12g)$ (ii) $(3gh-10g)$ (iii) $(4gh-12g)$ (iv) $(2gh-12g)$ (v) $(3gh-14g)$

9. The value of $2rs(r^2s^2+5)$ is

   (i) $(2r^3s^3+8rs)$ (ii) (r^3s^3+10rs) (iii) $(3r^3s^3+10rs)$ (iv) $(2r^3s^3+10rs)$ (v) $(2r^3s^3+13rs)$

10. The value of $qrs(2qrs-2qr)$ is

    (i) $(2q^2r^2s^2-4q^2r^2s)$ (ii) $2q^2r^2s^2$ (iii) $(3q^2r^2s^2-2q^2r^2s)$ (iv) $(q^2r^2s^2-2q^2r^2s)$

    (v) $(2q^2r^2s^2-2q^2r^2s)$

11. The value of $(-5vwx)(-vw^2-4vw-3x^2)$ is

    (i) $(5v^2w^3x+20v^2w^2x+15vwx^3)$ (ii) $(5v^2w^3x+23v^2w^2x+15vwx^3)$ (iii) $(4v^2w^3x+20v^2w^2x+15vwx^3)$

    (iv) $(6v^2w^3x+20v^2w^2x+15vwx^3)$ (v) $(5v^2w^3x+17v^2w^2x+15vwx^3)$

12. The value of $\frac{3}{5}(\frac{3}{5}ij+\frac{1}{2}i)$ is

(i) $(\frac{9}{25}ij+\frac{1}{2}i)$ (ii) $(\frac{9}{25}ij+\frac{3}{10}i)$ (iii) $(\frac{9}{23}ij+\frac{3}{10}i)$ (iv) $(\frac{1}{3}ij+\frac{3}{10}i)$ (v) $(\frac{9}{25}ij+\frac{1}{10}i)$

13. The value of $\frac{1}{4}jk(\frac{2}{5}jk+\frac{1}{3}j)$ is

(i) $(\frac{1}{10}j^2k^2-\frac{1}{12}j^2k)$ (ii) $(\frac{1}{10}j^2k^2+\frac{1}{12}j^2k)$ (iii) $(\frac{1}{10}j^2k^2+\frac{1}{4}j^2k)$ (iv) $(\frac{1}{12}j^2k^2+\frac{1}{12}j^2k)$ (v) $(\frac{1}{8}j^2k^2+\frac{1}{12}j^2k)$

14. The value of $\frac{1}{4}kl(\frac{1}{2}j^2k^2+\frac{1}{2}jkl^2)$ is

(i) $(\frac{1}{6}j^2k^3l+\frac{1}{8}jk^2l^3)$ (ii) $(\frac{1}{10}j^2k^3l+\frac{1}{8}jk^2l^3)$ (iii) $(\frac{1}{8}j^2k^3l+\frac{1}{8}jk^2l^3)$ (iv) $(\frac{1}{8}j^2k^3l+\frac{3}{8}jk^2l^3)$

(v) $(\frac{1}{8}j^2k^3l-\frac{1}{8}jk^2l^3)$

15. The value of $\frac{1}{2}h(\frac{2}{3}g^2i^2+\frac{1}{2}gi+\frac{1}{5})$ is

(i) $(\frac{1}{5}g^2hi^2+\frac{1}{4}ghi+\frac{1}{10}h)$ (ii) $(\frac{1}{3}g^2hi^2+\frac{3}{4}ghi+\frac{1}{10}h)$ (iii) $(\frac{1}{3}g^2hi^2+\frac{1}{4}ghi+\frac{1}{10}h)$ (iv) $(g^2hi^2+\frac{1}{4}ghi+\frac{1}{10}h)$

(v) $(\frac{1}{3}g^2hi^2-\frac{1}{4}ghi+\frac{1}{10}h)$

16. The value of $(-2n-5)\times(-5m+9)$ is

(i) $(10mn+27m-18n-45)$ (ii) $(10mn+25m-18n-45)$ (iii) $(9mn+25m-18n-45)$

(iv) $(10mn+23m-18n-45)$ (v) $(11mn+25m-18n-45)$

17. The value of $(vw-w)\times(-7v^2-4w^2)$ is

(i) $(-8v^3w+7v^2w-4vw^3+4w^3)$ (ii) $(-7v^3w+7v^2w-4vw^3+4w^3)$ (iii) $(-7v^3w+10v^2w-4vw^3+4w^3)$

(iv) $(-6v^3w+7v^2w-4vw^3+4w^3)$ (v) $(-7v^3w+4v^2w-4vw^3+4w^3)$

18. The value of $(-2uv+5)\times(9uv+1)\times(24v+5)$ is

(i) $(-433u^2v^3-90u^2v^2+1032uv^2+215uv+120v+25)$

(ii) $(-432u^2v^3-92u^2v^2+1032uv^2+215uv+120v+25)$

(iii) $(-432u^2v^3-88u^2v^2+1032uv^2+215uv+120v+25)$

(iv) $(-431u^2v^3-90u^2v^2+1032uv^2+215uv+120v+25)$

(v) $(-432u^2v^3-90u^2v^2+1032uv^2+215uv+120v+25)$

19. The value of $\frac{2}{5}b \times \frac{1}{2}a$ is

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

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

(i) $(-\frac{1}{150}q^3r)$ (ii) $\frac{1}{148}q^3r$ (iii) $\frac{1}{50}q^3r$ (iv) $\frac{1}{150}q^3r$ (v) $\frac{1}{152}q^3r$

21. The value of $\frac{1}{3}de \times \frac{1}{2}d^2e^2$ is

(i) $\frac{1}{6}d^3e^3$ (ii) $\frac{1}{8}d^3e^3$ (iii) $(-\frac{1}{6}d^3e^3)$ (iv) $\frac{1}{2}d^3e^3$ (v) $\frac{1}{4}d^3e^3$

22. The value of $\frac{1}{4}h \times \frac{1}{2}ij \times \frac{4}{5}h \times \frac{3}{5}ij$ is

(i) $\frac{1}{10}h^2i^2j^2$ (ii) $\frac{1}{50}h^2i^2j^2$ (iii) $\frac{3}{52}h^2i^2j^2$ (iv) $\frac{3}{50}h^2i^2j^2$ (v) $\frac{1}{16}h^2i^2j^2$

23. The value of $b \times b \times b$ is

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

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

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

25. The value of $9p \times (-3p)$ is

(i) $(-27p^2)$ (ii) $(-28p^2)$ (iii) $(-24p^2)$ (iv) $(-30p^2)$ (v) $(-26p^2)$

26. The value of $b^2 \times (-5b^2) \times 2b^2$ is

(i) $(-7b^6)$ (ii) $(-12b^6)$ (iii) $(-9b^6)$ (iv) $(-11b^6)$ (v) $(-10b^6)$

27. The value of $(-5m-1) \times (2m+4)$ is

(i) $(-11m^2-22m-4)$ (ii) $(-7m^2-22m-4)$ (iii) $(-13m^2-22m-4)$ (iv) $(-9m^2-22m-4)$

(v) $(-10m^2-22m-4)$

28. The value of $(-3d^2+6d-6) \times (3d^2-5d+5)$ is

(i) $(-9d^4+33d^3-63d^2+60d-30)$ (ii) $(-7d^4+33d^3-63d^2+60d-30)$

(iii) $(-10d^4+33d^3-63d^2+60d-30)$ (iv) $(-12d^4+33d^3-63d^2+60d-30)$

(v) $(-8d^4+33d^3-63d^2+60d-30)$

29. The value of $(-2v^2-3v-2)\times(-3v^2+9v-9)$ is

(i) $(5v^4-9v^3-3v^2+9v+18)$ (ii) $(4v^4-9v^3-3v^2+9v+18)$ (iii) $(7v^4-9v^3-3v^2+9v+18)$

(iv) $(6v^4-9v^3-3v^2+9v+18)$ (v) $(9v^4-9v^3-3v^2+9v+18)$

30. The value of $(7k-2)\times(5k^2-2)\times(5k^2-2)$ is

(i) $(176k^5-50k^4-140k^3+40k^2+28k-8)$ (ii) $(172k^5-50k^4-140k^3+40k^2+28k-8)$

(iii) $(177k^5-50k^4-140k^3+40k^2+28k-8)$ (iv) $(174k^5-50k^4-140k^3+40k^2+28k-8)$

(v) $(175k^5-50k^4-140k^3+40k^2+28k-8)$

31. The value of $\frac{1}{2}\times\frac{1}{2}w\times\frac{1}{3}w$ is

(i) $\frac{1}{4}w^2$ (ii) $\frac{1}{14}w^2$ (iii) $(-\frac{1}{12}w^2)$ (iv) $\frac{1}{10}w^2$ (v) $\frac{1}{12}w^2$

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

(i) $\frac{1}{23}i^2$ (ii) $\frac{3}{25}i^2$ (iii) $\frac{1}{27}i^2$ (iv) $(-\frac{1}{25}i^2)$ (v) $\frac{1}{25}i^2$

33. The value of $\frac{2}{5}j^2\times\frac{1}{2}j$ is

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

34. The value of $\frac{1}{4}n\times\frac{1}{3}n\times\frac{1}{3}n$ is

(i) $\frac{1}{36}n^3$ (ii) $\frac{1}{34}n^3$ (iii) $\frac{1}{38}n^3$ (iv) $\frac{1}{12}n^3$ (v) $(-\frac{1}{36}n^3)$

35. The expanded form of $(3x+8)(2x+6)$ is

(i) $(6x^2+34x+48)$ (ii) $(7x^2+34x+48)$ (iii) $(4x^2+34x+48)$ (iv) $(9x^2+34x+48)$ (v) $(5x^2+34x+48)$

36. The expanded form of $(x-1)(x-5)(x+9)$ is

(i) $(x^3+3x^2-49x+45)$ (ii) $(-x^3+3x^2-49x+45)$ (iii) $(3x^2-49x+45)$ (iv) $(2x^3+3x^2-49x+45)$

(v) $(3x^3+3x^2-49x+45)$

37. The expanded form of $(x-9)(x+2)(x-4)(x+1)$ is

(i) $(-x^4-10x^3-x^2+82x+72)$ (ii) $(3x^4-10x^3-x^2+82x+72)$ (iii) $(2x^4-10x^3-x^2+82x+72)$

(iv) $(-10x^3-x^2+82x+72)$ (v) $(x^4-10x^3-x^2+82x+72)$

Assignment Key

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