EduSahara™ Assignment

Name : Multiplication of Algebraic Expressions

Chapter : Operations on Algebraic Expressions

Grade : ICSE Grade VI

License : Non Commercial Use

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

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

2. The value of $2 \times (-5m) \times (-4m) \times 3$ is

   (i) $121m^2$ (ii) $119m^2$ (iii) $120m^2$ (iv) $118m^2$ (v) $122m^2$

3. The value of $(-7s) \times 2s$ is

   (i) $(-13s^2)$ (ii) $(-16s^2)$ (iii) $(-12s^2)$ (iv) $(-14s^2)$ (v) $(-15s^2)$

4. The value of $(-3n^2) \times 3n^2 \times 2n$ is

   (i) $(-17n^5)$ (ii) $(-19n^5)$ (iii) $(-21n^5)$ (iv) $(-18n^5)$ (v) $(-15n^5)$

5. The value of $(3s-3) \times (7s+6)$ is

   (i) $(20s^2-3s-18)$ (ii) $(19s^2-3s-18)$ (iii) $(24s^2-3s-18)$ (iv) $(22s^2-3s-18)$ (v) $(21s^2-3s-18)$

6. The value of $\frac{3}{5}n^2 \times \frac{2}{3}n \times \frac{1}{2}n^2$ is

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

7. The value of $\frac{1}{2} \times \frac{1}{3} \times \frac{1}{4}r$ is

   (i) $(-\frac{1}{24}r)$ (ii) $\frac{1}{24}r$ (iii) $\frac{1}{26}r$ (iv) $\frac{1}{8}r$ (v) $\frac{1}{22}r$

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

   (i) $\frac{1}{10}$ (ii) $\frac{1}{8}$ (iii) $(-\frac{1}{8})$ (iv) $\frac{1}{6}$ (v) $\frac{3}{8}$

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

   (i) $\frac{3}{10}c^2$ (ii) $\frac{1}{2}c^2$ (iii) $\frac{3}{8}c^2$ (iv) $\frac{5}{8}c^2$ (v) $\frac{1}{8}c^2$

10. The product of the terms $1, (-3), (-3tu), (-2), (-5)$ is

    (i) $89tu$ (ii) $91tu$ (iii) $92tu$ (iv) $90tu$ (v) $88tu$

11. The product of the terms $(-4jk)$, $3j$, $4jkl$, (-4), 2 is

(i) $383j^3k^2l$ (ii) $387j^3k^2l$ (iii) $385j^3k^2l$ (iv) $384j^3k^2l$ (v) $382j^3k^2l$

12. The product of the terms 5, 4, (-4), 5, 4 is

(i) (-1600) (ii) (-1599) (iii) (-1597) (iv) (-1601) (v) (-1603)

13. The value of $(-bc)\times 4bc$ is

(i) $(-5b^2c^2)$ (ii) $(-6b^2c^2)$ (iii) $(-3b^2c^2)$ (iv) $(-b^2c^2)$ (v) $(-4b^2c^2)$

14. The value of $2hi\times 8hi\times(-7)\times 6h$ is

(i) $(-672h^3i^2)$ (ii) $(-671h^3i^2)$ (iii) $(-673h^3i^2)$ (iv) $(-669h^3i^2)$ (v) $(-674h^3i^2)$

15. The value of $2wy^2\times(-w^2y^2)$ is

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

16. The value of $4kl\times 4l\times(-5lm)\times 4klm$ is

(i) $(-323k^2l^4m^2)$ (ii) $(-317k^2l^4m^2)$ (iii) $(-321k^2l^4m^2)$ (iv) $(-319k^2l^4m^2)$ (v) $(-320k^2l^4m^2)$

17. The value of $(-1)(-3jk+k)$ is

(i) $(3jk-k)$ (ii) $(3jk-4k)$ (iii) $(3jk+k)$ (iv) $(4jk-k)$ (v) $(2jk-k)$

18. The value of $p(-4q^2+q)$ is

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

19. The value of $5f(-2d^2e^2f+3de)$ is

(i) $(-9d^2e^2f^2+15def)$ (ii) $(-10d^2e^2f^2+13def)$ (iii) $(-10d^2e^2f^2+17def)$ (iv) $(-11d^2e^2f^2+15def)$

(v) $(-10d^2e^2f^2+15def)$

20. The value of $3(-2pq^2r^2-3qr+5)$ is

(i) $(-6pq^2r^2-6qr+15)$ (ii) $(-5pq^2r^2-9qr+15)$ (iii) $(-7pq^2r^2-9qr+15)$ (iv) $(-6pq^2r^2-9qr+15)$

(v) $(-6pq^2r^2-12qr+15)$

21. The value of $\frac{1}{2}(\frac{1}{4}k+\frac{1}{3})$ is

(i) $(\frac{1}{10}k+\frac{1}{6})$ (ii) $(\frac{1}{8}k+\frac{1}{2})$ (iii) $(\frac{1}{8}k+\frac{1}{6})$ (iv) $(\frac{1}{6}k+\frac{1}{6})$ (v) $(\frac{1}{8}k-\frac{1}{6})$

22. The value of $\frac{4}{5}b\,(\frac{3}{4}a^2b^2+\frac{1}{5}a^2)$ is

(i) $(a^2b^3+\frac{4}{25}a^2b)$ (ii) $(\frac{3}{5}a^2b^3+\frac{4}{25}a^2b)$ (iii) $(\frac{3}{5}a^2b^3+\frac{6}{25}a^2b)$ (iv) $(\frac{3}{7}a^2b^3+\frac{4}{25}a^2b)$

(v) $(\frac{3}{5}a^2b^3+\frac{2}{25}a^2b)$

23. The value of $\frac{1}{5}m\,(\frac{1}{2}m^2n^2+\frac{1}{3}m^2n)$ is

(i) $(\frac{1}{12}m^3n^2+\frac{1}{15}m^3n)$ (ii) $(\frac{1}{10}m^3n^2+\frac{1}{15}m^3n)$ (iii) $(\frac{1}{8}m^3n^2+\frac{1}{15}m^3n)$ (iv) $(\frac{1}{10}m^3n^2+\frac{1}{5}m^3n)$

(v) $(\frac{1}{10}m^3n^2-\frac{1}{15}m^3n)$

24. The value of $\frac{1}{2}opq\,(\frac{1}{2}o^2p+\frac{4}{5}op+\frac{1}{3}oq^2)$ is

(i) $(\frac{1}{2}o^3p^2q+\frac{2}{5}o^2p^2q+\frac{1}{6}o^2pq^3)$ (ii) $(\frac{1}{4}o^3p^2q+\frac{2}{5}o^2p^2q+\frac{1}{6}o^2pq^3)$ (iii) $(\frac{1}{4}o^3p^2q+\frac{1}{6}o^2pq^3)$

(iv) $(\frac{1}{6}o^3p^2q+\frac{2}{5}o^2p^2q+\frac{1}{6}o^2pq^3)$ (v) $(\frac{1}{4}o^3p^2q+\frac{4}{5}o^2p^2q+\frac{1}{6}o^2pq^3)$

25. The value of $(-6no-15)\times(-5o+4)$ is

(i) $(31no^2-24no+75o-60)$ (ii) $(29no^2-24no+75o-60)$ (iii) $(30no^2-24no+75o-60)$

(iv) $(30no^2-22no+75o-60)$ (v) $(30no^2-27no+75o-60)$

26. The value of $\frac{4}{5}\times\frac{1}{2}b$ is

(i) 0 (ii) $\frac{2}{3}b$ (iii) $\frac{4}{5}b$ (iv) $\frac{2}{5}b$ (v) $\frac{2}{7}b$

27. The value of $\frac{1}{2}qr\times\frac{3}{4}r\times\frac{3}{4}q\times\frac{1}{2}r$ is

(i) $\frac{7}{64}q^2r^3$ (ii) $\frac{9}{64}q^2r^3$ (iii) $\frac{3}{22}q^2r^3$ (iv) $\frac{9}{62}q^2r^3$ (v) $\frac{11}{64}q^2r^3$

28. The value of $\frac{3}{4}xy^2z^2\times\frac{2}{3}yz$ is

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

29. The value of $\frac{1}{4}q\times\frac{3}{5}pq\times\frac{1}{2}pr\times\frac{1}{4}pqr$ is

(i) $\frac{3}{160}p^3q^3r^2$ (ii) $\frac{1}{54}p^3q^3r^2$ (iii) $\frac{1}{32}p^3q^3r^2$ (iv) $\frac{3}{158}p^3q^3r^2$ (v) $\frac{1}{160}p^3q^3r^2$

Assignment Key

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

Copyright © Small Systems Computing Pvt. Ltd.