EduSahara™ Assignment

Name : Multiplication of Algebraic Expressions

Chapter : Algebraic Expressions and Identities

Grade : CBSE Grade VIII

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

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

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

   (i) $17u^3$ (ii) $15u^3$ (iii) $16u^3$ (iv) $14u^3$ (v) $18u^3$

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

   (i) $21t^3$ (ii) $17t^3$ (iii) $22t^3$ (iv) $20t^3$ (v) $19t^3$

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

   (i) $65i^4$ (ii) $63i^4$ (iii) $67i^4$ (iv) $61i^4$ (v) $64i^4$

5. The value of $(-5d-5) \times (-9d+2)$ is

   (i) $(45d^2+35d-10)$ (ii) $(46d^2+35d-10)$ (iii) $(48d^2+35d-10)$ (iv) $(44d^2+35d-10)$

   (v) $(43d^2+35d-10)$

6. The value of $(3a^2-6a-1) \times (-2a^2-5a+8)$ is

   (i) $(-9a^4-3a^3+56a^2-43a-8)$ (ii) $(-3a^4-3a^3+56a^2-43a-8)$ (iii) $(-5a^4-3a^3+56a^2-43a-8)$

   (iv) $(-6a^4-3a^3+56a^2-43a-8)$ (v) $(-7a^4-3a^3+56a^2-43a-8)$

7. The value of $(-6g^2+2g+5) \times (8g^2+5g+7)$ is

   (i) $(-51g^4-14g^3+8g^2+39g+35)$ (ii) $(-49g^4-14g^3+8g^2+39g+35)$

   (iii) $(-46g^4-14g^3+8g^2+39g+35)$ (iv) $(-48g^4-14g^3+8g^2+39g+35)$

   (v) $(-47g^4-14g^3+8g^2+39g+35)$

8. The value of $(8g^2-9) \times (-g^2-6) \times (g-4)$ is

   (i) $(-7g^5+32g^4-39g^3+156g^2+54g-216)$ (ii) $(-9g^5+32g^4-39g^3+156g^2+54g-216)$

   (iii) $(-5g^5+32g^4-39g^3+156g^2+54g-216)$ (iv) $(-10g^5+32g^4-39g^3+156g^2+54g-216)$

   (v) $(-8g^5+32g^4-39g^3+156g^2+54g-216)$

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

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

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

(i) $\frac{4}{75}b^4$ (ii) $\frac{2}{77}b^4$ (iii) $\frac{2}{73}b^4$ (iv) $\frac{2}{75}b^4$ (v) 0

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

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

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

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

13. The product of the terms $(-5), (-t), (-5s), (-1), 3$ is

(i) $75st$ (ii) $72st$ (iii) $74st$ (iv) $78st$ (v) $76st$

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

(i) $117qr^2s$ (ii) $121qr^2s$ (iii) $119qr^2s$ (iv) $122qr^2s$ (v) $120qr^2s$

15. The product of the terms $2, 1, (-1), (-1), (-1)$ is

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

16. The value of $8gh \times (-2)$ is

(i) $(-16gh)$ (ii) $(-15gh)$ (iii) $(-18gh)$ (iv) $(-17gh)$ (v) $(-14gh)$

17. The value of $(-3y) \times 5y \times 4 \times x$ is

(i) $(-58xy^2)$ (ii) $(-63xy^2)$ (iii) $(-59xy^2)$ (iv) $(-61xy^2)$ (v) $(-60xy^2)$

18. The value of $x^2y \times (-6wy^2)$ is

(i) $(-5wx^2y^3)$ (ii) $(-8wx^2y^3)$ (iii) $(-7wx^2y^3)$ (iv) $(-3wx^2y^3)$ (v) $(-6wx^2y^3)$

19. The value of $r \times 9st \times (-6rs) \times (-rs)$ is

(i) $55r^3s^3t$ (ii) $57r^3s^3t$ (iii) $54r^3s^3t$ (iv) $53r^3s^3t$ (v) $52r^3s^3t$

20. The value of $5(-5st-2)$ is

(i) $(-24st-10)$ (ii) $(-26st-10)$ (iii) $(-25st-10)$ (iv) $(-25st-13)$ (v) $(-25st-7)$

21. The value of $m(mn+5)$ is

(i) $5m$ (ii) $(2m^2n+5m)$ (iii) (m^2n+8m) (iv) (m^2n+3m) (v) (m^2n+5m)

22. The value of $2oq(-5q^2-5)$ is

(i) $(-10oq^3-10oq)$ (ii) $(-10oq^3-13oq)$ (iii) $(-10oq^3-7oq)$ (iv) $(-11oq^3-10oq)$

(v) $(-9oq^3-10oq)$

23. The value of $(-2)(-5w^2x^2y-2x^2y+4x)$ is

(i) $(10w^2x^2y+x^2y-8x)$ (ii) $(9w^2x^2y+4x^2y-8x)$ (iii) $(11w^2x^2y+4x^2y-8x)$

(iv) $(10w^2x^2y+4x^2y-8x)$ (v) $(10w^2x^2y+7x^2y-8x)$

24. The value of $\frac{1}{4}(\frac{1}{2}c+\frac{1}{2})$ is

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

25. The value of $\frac{1}{3}fg(\frac{1}{4}f^2+\frac{2}{3}g^2)$ is

(i) $(\frac{1}{10}f^3g+\frac{2}{9}fg^3)$ (ii) $(\frac{1}{12}f^3g+\frac{2}{9}fg^3)$ (iii) $(\frac{1}{14}f^3g+\frac{2}{9}fg^3)$ (iv) $\frac{1}{12}f^3g$ (v) $(\frac{1}{12}f^3g+\frac{4}{9}fg^3)$

26. The value of $\frac{1}{2}uvw(\frac{3}{5}u^2vw^2+\frac{1}{5}uv)$ is

(i) $(\frac{3}{10}u^3v^2w^3+\frac{1}{10}u^2v^2w)$ (ii) $(\frac{3}{10}u^3v^2w^3+\frac{3}{10}u^2v^2w)$ (iii) $(\frac{3}{10}u^3v^2w^3-\frac{1}{10}u^2v^2w)$

(iv) $(\frac{1}{4}u^3v^2w^3+\frac{1}{10}u^2v^2w)$ (v) $(\frac{3}{8}u^3v^2w^3+\frac{1}{10}u^2v^2w)$

27. The value of $\frac{1}{2}j(\frac{3}{5}j^2kl^2+\frac{2}{5}j^2k+\frac{1}{2}kl)$ is

(i) $(\frac{1}{4}j^3kl^2+\frac{1}{5}j^3k+\frac{1}{4}jkl)$ (ii) $(\frac{3}{10}j^3kl^2+\frac{1}{5}j^3k+\frac{1}{4}jkl)$ (iii) $(\frac{3}{8}j^3kl^2+\frac{1}{5}j^3k+\frac{1}{4}jkl)$ (iv) $(\frac{3}{10}j^3kl^2-\frac{1}{5}j^3k+\frac{1}{4}jkl)$

(v) $(\frac{3}{10}j^3kl^2+\frac{3}{5}j^3k+\frac{1}{4}jkl)$

28. The value of $(i+4j)\times(4i-6j)$ is

(i) $(4i^2+10ij-24j^2)$ (ii) $(5i^2+10ij-24j^2)$ (iii) $(4i^2+7ij-24j^2)$ (iv) $(3i^2+10ij-24j^2)$

(v) $(4i^2+12ij-24j^2)$

29. The value of $(-3k^2l-2k)\times(-5k+3l^2)$ is

(i) $(15k^3l-9k^2l^3+10k^2-6kl^2)$ (ii) $(14k^3l-9k^2l^3+10k^2-6kl^2)$ (iii) $(15k^3l-12k^2l^3+10k^2-6kl^2)$

(iv) $(15k^3l-6k^2l^3+10k^2-6kl^2)$ (v) $(16k^3l-9k^2l^3+10k^2-6kl^2)$

30. The value of $(5l+5m)\times(2l+6m)\times(-6l-9)$ is

(i) $(-59l^3-240l^2m-90l^2-180lm^2-360lm-270m^2)$

(ii) $(-60l^3-242l^2m-90l^2-180lm^2-360lm-270m^2)$

(iii) $(-60l^3-240l^2m-90l^2-180lm^2-360lm-270m^2)$

(iv) $(-60l^3-237l^2m-90l^2-180lm^2-360lm-270m^2)$

(v) $(-61l^3-240l^2m-90l^2-180lm^2-360lm-270m^2)$

31. The value of $\frac{1}{4}h\times\frac{1}{2}h$ is

(i) $(-\frac{1}{8}h^2)$ (ii) $\frac{1}{6}h^2$ (iii) $\frac{1}{10}h^2$ (iv) $\frac{1}{8}h^2$ (v) $\frac{3}{8}h^2$

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

(i) $\frac{3}{25}b^4c$ (ii) $\frac{1}{25}b^4c$ (iii) $(-\frac{1}{25}b^4c)$ (iv) $\frac{1}{23}b^4c$ (v) $\frac{1}{27}b^4c$

33. The value of $\frac{1}{3}p^2q\times\frac{2}{5}oq^2$ is

(i) $\frac{4}{15}op^2q^3$ (ii) $\frac{2}{17}op^2q^3$ (iii) 0 (iv) $\frac{2}{13}op^2q^3$ (v) $\frac{2}{15}op^2q^3$

34. The value of $\frac{1}{2}m\times\frac{1}{2}l\times\frac{3}{5}\times\frac{1}{2}$ is

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

Assignment Key

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

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