EduSahara™ Assignment

Name : Multiplication of Algebraic Expressions

Chapter : Operations on Algebraic Expressions

Grade : ICSE Grade VI

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

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

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

   (i) $59e^2$ (ii) $61e^2$ (iii) $60e^2$ (iv) $63e^2$ (v) $57e^2$

3. The value of $(-5w) \times (-6w)$ is

   (i) $29w^2$ (ii) $30w^2$ (iii) $27w^2$ (iv) $32w^2$ (v) $31w^2$

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

   (i) $31d^4$ (ii) $33d^4$ (iii) $30d^4$ (iv) $27d^4$ (v) $29d^4$

5. The value of $(5g-4) \times (6g+9)$ is

   (i) $(30g^2+21g-36)$ (ii) $(29g^2+21g-36)$ (iii) $(27g^2+21g-36)$ (iv) $(32g^2+21g-36)$

   (v) $(31g^2+21g-36)$

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

   (i) $\frac{2}{15}c^4$ (ii) $\frac{8}{73}c^4$ (iii) $\frac{2}{25}c^4$ (iv) $\frac{8}{75}c^4$ (v) $\frac{8}{77}c^4$

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

   (i) 0 (ii) $\frac{4}{45}$ (iii) $\frac{2}{47}$ (iv) $\frac{2}{45}$ (v) $\frac{2}{43}$

8. The value of $\frac{1}{2}e \times \frac{2}{3}e \times \frac{2}{5} \times \frac{2}{3}e$ is

   (i) $\frac{4}{43}e^3$ (ii) $\frac{2}{15}e^3$ (iii) $\frac{4}{47}e^3$ (iv) $\frac{2}{45}e^3$ (v) $\frac{4}{45}e^3$

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

   (i) $\frac{1}{5}p^4$ (ii) $\frac{1}{25}p^4$ (iii) $\frac{3}{23}p^4$ (iv) $\frac{1}{9}p^4$ (v) $\frac{3}{25}p^4$

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

(i) $(-96j^3k^2)$ (ii) $(-94j^3k^2)$ (iii) $(-99j^3k^2)$ (iv) $(-95j^3k^2)$ (v) $(-97j^3k^2)$

11. The product of the terms $(-4n), 2lmn, (-3lmn), (-1), (-2)$ is

(i) $47l^2m^2n^3$ (ii) $46l^2m^2n^3$ (iii) $49l^2m^2n^3$ (iv) $48l^2m^2n^3$ (v) $50l^2m^2n^3$

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

(i) (-67) (ii) (-65) (iii) (-62) (iv) (-64) (v) (-63)

13. The value of $(-5tu) \times (-4t)$ is

(i) $21t^2u$ (ii) $18t^2u$ (iii) $20t^2u$ (iv) $19t^2u$ (v) $23t^2u$

14. The value of $(-8) \times (-6vw) \times (-5vw) \times 4$ is

(i) $(-959v^2w^2)$ (ii) $(-958v^2w^2)$ (iii) $(-962v^2w^2)$ (iv) $(-960v^2w^2)$ (v) $(-961v^2w^2)$

15. The value of $(-3no^2p^2) \times 2n^2o^2p$ is

(i) $(-8n^3o^4p^3)$ (ii) $(-6n^3o^4p^3)$ (iii) $(-5n^3o^4p^3)$ (iv) $(-7n^3o^4p^3)$ (v) $(-4n^3o^4p^3)$

16. The value of $x \times (-xyz) \times (-5x) \times 7xy$ is

(i) $35x^4y^2z$ (ii) $33x^4y^2z$ (iii) $38x^4y^2z$ (iv) $36x^4y^2z$ (v) $34x^4y^2z$

17. The value of $(-3)(-3cd+4d)$ is

(i) $(9cd-14d)$ (ii) $(10cd-12d)$ (iii) $(9cd-12d)$ (iv) $(8cd-12d)$ (v) $(9cd-10d)$

18. The value of $2(v-4)$ is

(i) $(2v-11)$ (ii) $(2v-5)$ (iii) $(2v-8)$ (iv) $(v-8)$ (v) $(3v-8)$

19. The value of $(-4jkl)(-5j^2k^2l-3jl^2)$ is

(i) $(20j^3k^3l^2+9j^2kl^3)$ (ii) $(20j^3k^3l^2+12j^2kl^3)$ (iii) $(20j^3k^3l^2+14j^2kl^3)$ (iv) $(21j^3k^3l^2+12j^2kl^3)$

(v) $(19j^3k^3l^2+12j^2kl^3)$

20. The value of $(-5m)(5m+n^2o^2+2n^2)$ is

(i) $(-25m^2-3mn^2o^2-10mn^2)$ (ii) $(-24m^2-5mn^2o^2-10mn^2)$ (iii) $(-25m^2-7mn^2o^2-10mn^2)$

(iv) $(-26m^2-5mn^2o^2-10mn^2)$ (v) $(-25m^2-5mn^2o^2-10mn^2)$

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

(i) $(\frac{3}{8}kl-\frac{1}{4}l)$ (ii) $(\frac{3}{10}kl+\frac{1}{4}l)$ (iii) $(\frac{3}{8}kl+\frac{1}{4}l)$ (iv) $(\frac{3}{8}kl+\frac{3}{4}l)$ (v) $(\frac{1}{2}kl+\frac{1}{4}l)$

22. The value of $\frac{1}{2}(\frac{4}{5}t^2u+\frac{1}{2}tu^2)$ is

(i) $(\frac{2}{7}t^2u+\frac{1}{4}tu^2)$ (ii) $(\frac{2}{5}t^2u+\frac{1}{4}tu^2)$ (iii) $(\frac{2}{3}t^2u+\frac{1}{4}tu^2)$ (iv) $(\frac{2}{5}t^2u+\frac{3}{4}tu^2)$ (v) $(\frac{2}{5}t^2u-\frac{1}{4}tu^2)$

23. The value of $\frac{1}{3}f(\frac{2}{5}e^2f^2+\frac{1}{4}e)$ is

(i) $(\frac{2}{13}e^2f^3+\frac{1}{12}ef)$ (ii) $(\frac{2}{15}e^2f^3+\frac{1}{12}ef)$ (iii) $(\frac{2}{15}e^2f^3+\frac{1}{4}ef)$ (iv) $(\frac{2}{15}e^2f^3-\frac{1}{12}ef)$ (v) $(\frac{2}{17}e^2f^3+\frac{1}{12}ef)$

24. The value of $\frac{1}{3}eg(\frac{1}{2}e^2g+\frac{1}{3}efg^2+\frac{2}{3}f)$ is

(i) $(\frac{1}{6}e^3g^2+\frac{1}{9}e^2fg^3+\frac{2}{9}efg)$ (ii) $(\frac{1}{6}e^3g^2+\frac{1}{3}e^2fg^3+\frac{2}{9}efg)$ (iii) $(\frac{1}{8}e^3g^2+\frac{1}{9}e^2fg^3+\frac{2}{9}efg)$

(iv) $(\frac{1}{4}e^3g^2+\frac{1}{9}e^2fg^3+\frac{2}{9}efg)$ (v) $(\frac{1}{6}e^3g^2-\frac{1}{9}e^2fg^3+\frac{2}{9}efg)$

25. The value of $(-4xy-6x)\times(y+7)$ is

(i) $(-5xy^2-34xy-42x)$ (ii) $(-3xy^2-34xy-42x)$ (iii) $(-4xy^2-36xy-42x)$ (iv) $(-4xy^2-32xy-42x)$

(v) $(-4xy^2-34xy-42x)$

26. The value of $\frac{2}{5}tu\times\frac{3}{5}t$ is

(i) $\frac{4}{25}t^2u$ (ii) $\frac{8}{25}t^2u$ (iii) $\frac{6}{25}t^2u$ (iv) $\frac{2}{9}t^2u$ (v) $\frac{6}{23}t^2u$

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

(i) $\frac{9}{200}b^2c$ (ii) $\frac{7}{200}b^2c$ (iii) $\frac{1}{22}b^2c$ (iv) $\frac{9}{202}b^2c$ (v) $\frac{11}{200}b^2c$

28. The value of $\frac{2}{5}x^2\times\frac{1}{2}x^2$ is

(i) $\frac{3}{5}x^4$ (ii) $\frac{1}{3}x^4$ (iii) $\frac{1}{5}x^4$ (iv) $\frac{1}{7}x^4$ (v) $(-\frac{1}{5}x^4)$

29. The value of $\frac{2}{5}i\times\frac{1}{2}g\times\frac{3}{4}hi\times\frac{1}{2}gh$ is

(i) $\frac{1}{14}g^2h^2i^2$ (ii) $\frac{3}{38}g^2h^2i^2$ (iii) $\frac{1}{8}g^2h^2i^2$ (iv) $\frac{1}{40}g^2h^2i^2$ (v) $\frac{3}{40}g^2h^2i^2$

Assignment Key

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

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