EduSahara™ Assignment

Name : Multiplication of Algebraic Expressions

Chapter : Fundamental Concepts

Grade : ICSE Grade VIII

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

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

2. The value of $3f \times f \times 3f \times 5$ is

   (i) $42f^3$ (ii) $45f^3$ (iii) $46f^3$ (iv) $47f^3$ (v) $44f^3$

3. The value of $8v^2 \times 3v^2$ is

   (i) $22v^4$ (ii) $25v^4$ (iii) $26v^4$ (iv) $24v^4$ (v) $23v^4$

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

   (i) $(-21x^5)$ (ii) $(-23x^5)$ (iii) $(-24x^5)$ (iv) $(-25x^5)$ (v) $(-26x^5)$

5. The value of $(6j+6) \times (3j+4)$ is

   (i) $(19j^2+42j+24)$ (ii) $(20j^2+42j+24)$ (iii) $(15j^2+42j+24)$ (iv) $(18j^2+42j+24)$ (v) $(17j^2+42j+24)$

6. The value of $(3b^2+5b-8) \times (-5b^2-7b+9)$ is

   (i) $(-14b^4-46b^3+32b^2+101b-72)$ (ii) $(-15b^4-46b^3+32b^2+101b-72)$

   (iii) $(-18b^4-46b^3+32b^2+101b-72)$ (iv) $(-13b^4-46b^3+32b^2+101b-72)$

   (v) $(-16b^4-46b^3+32b^2+101b-72)$

7. The value of $(5s^2-3s-7) \times (4s^2+s+3)$ is

   (i) $(21s^4-7s^3-16s^2-16s-21)$ (ii) $(20s^4-7s^3-16s^2-16s-21)$ (iii) $(19s^4-7s^3-16s^2-16s-21)$

   (iv) $(22s^4-7s^3-16s^2-16s-21)$ (v) $(17s^4-7s^3-16s^2-16s-21)$

8. The value of $(2u^2-3u) \times (-3u^2-4) \times (2u-9)$ is

   (i) $(-14u^5+72u^4-97u^3+96u^2-108u)$ (ii) $(-9u^5+72u^4-97u^3+96u^2-108u)$

   (iii) $(-12u^5+72u^4-97u^3+96u^2-108u)$ (iv) $(-13u^5+72u^4-97u^3+96u^2-108u)$

   (v) $(-11u^5+72u^4-97u^3+96u^2-108u)$

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

(i) $\frac{7}{50}b^3$ (ii) $\frac{3}{16}b^3$ (iii) $\frac{11}{50}b^3$ (iv) $\frac{9}{52}b^3$ (v) $\frac{9}{50}b^3$

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

(i) $\frac{1}{18}r^2$ (ii) $\frac{3}{20}r^2$ (iii) $(-\frac{1}{20}r^2)$ (iv) $\frac{1}{22}r^2$ (v) $\frac{1}{20}r^2$

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

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

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

(i) $\frac{4}{29}j^6$ (ii) $\frac{2}{9}j^6$ (iii) $\frac{4}{25}j^6$ (iv) $\frac{2}{27}j^6$ (v) $\frac{4}{27}j^6$

13. The product of the terms $(-2lm), 4l, (-2lm), (-1), 2$ is

(i) $(-35l^3m^2)$ (ii) $(-30l^3m^2)$ (iii) $(-32l^3m^2)$ (iv) $(-31l^3m^2)$ (v) $(-33l^3m^2)$

14. The product of the terms $(-2n), (-2lmn), lm, (-5), 2$ is

(i) $(-39l^2m^2n^2)$ (ii) $(-38l^2m^2n^2)$ (iii) $(-41l^2m^2n^2)$ (iv) $(-42l^2m^2n^2)$ (v) $(-40l^2m^2n^2)$

15. The product of the terms $(-4), 1, (-2), (-1), 2$ is

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

16. The value of $(-6o) \times 8p$ is

(i) $(-50op)$ (ii) $(-48op)$ (iii) $(-47op)$ (iv) $(-49op)$ (v) $(-46op)$

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

(i) $1439b^3c$ (ii) $1440b^3c$ (iii) $1438b^3c$ (iv) $1441b^3c$ (v) $1442b^3c$

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

(i) $(-12a^2b^2)$ (ii) $(-10a^2b^2)$ (iii) $(-11a^2b^2)$ (iv) $(-7a^2b^2)$ (v) $(-9a^2b^2)$

19. The value of $k \times (-3l) \times (-9km) \times (-8m)$ is

(i) $(-216k^2lm^2)$ (ii) $(-217k^2lm^2)$ (iii) $(-215k^2lm^2)$ (iv) $(-214k^2lm^2)$ (v) $(-218k^2lm^2)$

20. The value of $3(-ab+1)$ is

(i) $(-3ab+3)$ (ii) $(-3ab+6)$ (iii) $(-4ab+3)$ (iv) $(-3ab)$ (v) $(-2ab+3)$

21. The value of $3lm(5l^2-2lm^2)$ is

(i) $(15l^3m-9l^2m^3)$ (ii) $(15l^3m-4l^2m^3)$ (iii) $(15l^3m-6l^2m^3)$ (iv) $(14l^3m-6l^2m^3)$

(v) $(16l^3m-6l^2m^3)$

22. The value of $m(3kl^2+3m^2)$ is

(i) $(3kl^2m+5m^3)$ (ii) $(3kl^2m+3m^3)$ (iii) $(3kl^2m+m^3)$ (iv) $(2kl^2m+3m^3)$ (v) $(4kl^2m+3m^3)$

23. The value of $st(-4s^2t^2u^2+s^2t^2u+4tu^2)$ is

(i) $(-3s^3t^3u^2+s^3t^3u+4st^2u^2)$ (ii) $(-4s^3t^3u^2+4s^3t^3u+4st^2u^2)$ (iii) $(-5s^3t^3u^2+s^3t^3u+4st^2u^2)$

(iv) $(-4s^3t^3u^2-s^3t^3u+4st^2u^2)$ (v) $(-4s^3t^3u^2+s^3t^3u+4st^2u^2)$

24. The value of $\frac{1}{4}(\frac{1}{5}bc+\frac{2}{3}b)$ is

(i) $(\frac{1}{18}bc+\frac{1}{6}b)$ (ii) $(\frac{1}{22}bc+\frac{1}{6}b)$ (iii) $(\frac{1}{20}bc+\frac{1}{6}b)$ (iv) $(\frac{1}{20}bc-\frac{1}{6}b)$ (v) $(\frac{1}{20}bc+\frac{1}{2}b)$

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

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

26. The value of $\frac{1}{2}l(\frac{1}{3}k^2lm^2+\frac{1}{2}k^2l)$ is

(i) $(\frac{1}{4}k^2l^2m^2+\frac{1}{4}k^2l^2)$ (ii) $(\frac{1}{6}k^2l^2m^2+\frac{1}{4}k^2l^2)$ (iii) $(\frac{1}{6}k^2l^2m^2-\frac{1}{4}k^2l^2)$ (iv) $(\frac{1}{6}k^2l^2m^2+\frac{3}{4}k^2l^2)$

(v) $(\frac{1}{8}k^2l^2m^2+\frac{1}{4}k^2l^2)$

27. The value of $\frac{1}{2}op(\frac{1}{3}n^2+\frac{1}{2}no+\frac{2}{5}n)$ is

(i) $(\frac{1}{6}n^2op+\frac{1}{4}no^2p+\frac{1}{5}nop)$ (ii) $(\frac{1}{4}n^2op+\frac{1}{4}no^2p+\frac{1}{5}nop)$ (iii) $(\frac{1}{6}n^2op-\frac{1}{4}no^2p+\frac{1}{5}nop)$

(iv) $(\frac{1}{6}n^2op+\frac{3}{4}no^2p+\frac{1}{5}nop)$ (v) $(\frac{1}{8}n^2op+\frac{1}{4}no^2p+\frac{1}{5}nop)$

28. The value of $(-3u+4)\times(-uv+3)$ is

(i) $(3u^2v-4uv-9u+12)$ (ii) $(3u^2v-uv-9u+12)$ (iii) $(3u^2v-6uv-9u+12)$ (iv) $(2u^2v-4uv-9u+12)$

(v) $(4u^2v-4uv-9u+12)$

29. The value of $\frac{3}{4}j \times \frac{3}{4}$ is

(i) $\frac{11}{16}j$ (ii) $\frac{1}{2}j$ (iii) $\frac{9}{16}j$ (iv) $\frac{9}{14}j$ (v) $\frac{7}{16}j$

30. The value of $\frac{2}{3} \times \frac{2}{3}t \times \frac{1}{2}tu \times \frac{1}{2}tu$ is

(i) $\frac{1}{3}t^3u^2$ (ii) $\frac{1}{11}t^3u^2$ (iii) $\frac{1}{7}t^3u^2$ (iv) $(-\frac{1}{9}t^3u^2)$ (v) $\frac{1}{9}t^3u^2$

31. The value of $\frac{3}{4}qs \times \frac{1}{2}q^2r^2$ is

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

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

(i) $\frac{1}{5}p^2qr^3$ (ii) $\frac{3}{25}p^2qr^3$ (iii) $\frac{1}{9}p^2qr^3$ (iv) $\frac{1}{25}p^2qr^3$ (v) $\frac{3}{23}p^2qr^3$

Assignment Key

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