

EduSahara™ Learning Center Assignment

Grade : Class VIII, CBSE
Chapter : Algebraic Expressions and Identities
Name : Multiplication of Algebraic Expressions
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1. The value of $u \times u \times u$ is

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

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

- (i) $372k^3$ (ii) $378k^3$ (iii) $375k^3$ (iv) $376k^3$ (v) $374k^3$
-

3. The value of $3n^2 \times n^2$ is

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

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

- (i) $15f^4$ (ii) $14f^4$ (iii) $12f^4$ (iv) $17f^4$ (v) $16f^4$
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5. The value of $(5b - 9) \times (6b + 6)$ is

- (i) $(29b^2 - 24b - 54)$ (ii) $(28b^2 - 24b - 54)$ (iii) $(31b^2 - 24b - 54)$
(iv) $(30b^2 - 24b - 54)$ (v) $(32b^2 - 24b - 54)$
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6. The value of $(-8f^2 - 5f - 8) \times (-7f^2 + 8f + 1)$ is

- (i) $(56f^4 - 29f^3 + 8f^2 - 69f - 8)$
(ii) $(54f^4 - 29f^3 + 8f^2 - 69f - 8)$

(iii) $(57f^4 - 29f^3 + 8f^2 - 69f - 8)$

(iv) $(58f^4 - 29f^3 + 8f^2 - 69f - 8)$

(v) $(55f^4 - 29f^3 + 8f^2 - 69f - 8)$

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

(i) $(-9c^4 - 24c^3 - 27c^2 - 9c - 35)$

(ii) $(-12c^4 - 24c^3 - 27c^2 - 9c - 35)$

(iii) $(-10c^4 - 24c^3 - 27c^2 - 9c - 35)$

(iv) $(-11c^4 - 24c^3 - 27c^2 - 9c - 35)$

(v) $(-7c^4 - 24c^3 - 27c^2 - 9c - 35)$

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

(i) $(29t^6 - 192t^5 + 185t^4 + 160t^3 - 175t^2)$

(ii) $(30t^6 - 192t^5 + 185t^4 + 160t^3 - 175t^2)$

(iii) $(31t^6 - 192t^5 + 185t^4 + 160t^3 - 175t^2)$

(iv) $(28t^6 - 192t^5 + 185t^4 + 160t^3 - 175t^2)$

(v) $(32t^6 - 192t^5 + 185t^4 + 160t^3 - 175t^2)$

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

(i) $(-\frac{1}{15}f^2)$ (ii) $\frac{1}{13}f^2$ (iii) $\frac{1}{15}f^2$ (iv) $\frac{1}{17}f^2$ (v) $\frac{1}{5}f^2$

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

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

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

(i) $\frac{5}{8} c^4$ (ii) $\frac{3}{8} c^4$ (iii) $\frac{3}{10} c^4$ (iv) $\frac{1}{2} c^4$ (v) $\frac{1}{8} c^4$

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

(i) $\frac{3}{10} m^6$ (ii) $\frac{1}{12} m^6$ (iii) $(-\frac{1}{10} m^6)$ (iv) $\frac{1}{8} m^6$ (v) $\frac{1}{10} m^6$

The product of the terms

13. $(-f), 5g, (-f), 4, (-1)$ is

(i) $(-18f^2g)$ (ii) $(-20f^2g)$ (iii) $(-19f^2g)$

(iv) $(-21f^2g)$ (v) $(-22f^2g)$

The product of the terms

14. $(-3qr), 5, (-2r), (-2), (-1)$ is

(i) $58qr^2$ (ii) $61qr^2$ (iii) $60qr^2$

(iv) $63qr^2$ (v) $59qr^2$

The product of the terms

15. $(-3), 1, 3, 1, (-2)$ is

(i) 19 (ii) 15 (iii) 17

(iv) 18 (v) 21

The value of

16. $(-3) \times 8$ is

(i) (-21) (ii) (-25) (iii) (-26)

(iv) (-23) (v) (-24)

The value of

17. $3n \times (-5n) \times (-5n) \times (-o)$ is

(i) $(-72n^3o)$ (ii) $(-75n^3o)$ (iii) $(-77n^3o)$

(iv) $(-76n^3o)$ (v) $(-74n^3o)$

The value of

18. $(-3a^2c^2) \times 3b^2$ is

(i) $(-9a^2b^2c^2)$ (ii) $(-11a^2b^2c^2)$ (iii) $(-8a^2b^2c^2)$

(iv) $(-7a^2b^2c^2)$ (v) $(-10a^2b^2c^2)$

The value of

19. $no \times (-6op) \times (-7op) \times (-5n)$ is

(i) $(-210n^2o^3p^2)$ (ii) $(-209n^2o^3p^2)$ (iii) $(-207n^2o^3p^2)$

(iv) $(-211n^2o^3p^2)$ (v) $(-212n^2o^3p^2)$

20. The value of $1(-2h+4)$ is

(i) $(-2h+6)$ (ii) $(-2h+1)$

(iii) $(-h+4)$ (iv) $(-3h+4)$

(v) $(-2h+4)$

21. The value of $(-4t)(-4tu^2-2u)$ is

(i) $(16t^2u^2+11tu)$ (ii) $(16t^2u^2+5tu)$

(iii) $(16t^2u^2+8tu)$ (iv) $(15t^2u^2+8tu)$

(v) $(17t^2u^2 + 8tu)$

22. The value of $3ef(-e^2g^2 + 2ef^2)$ is

(i) $(-3e^3fg^2 + 6e^2f^3)$ (ii) $(-3e^3fg^2 + 4e^2f^3)$

(iii) $(-4e^3fg^2 + 6e^2f^3)$ (iv) $(-3e^3fg^2 + 8e^2f^3)$

(v) $(-2e^3fg^2 + 6e^2f^3)$

23. The value of $(-4no)(m^2n^2o^2 - mn^2o - 4mno)$ is

(i) $(-3m^2n^3o^3 + 4mn^3o^2 + 16mn^2o^2)$ (ii) $(-4m^2n^3o^3 + mn^3o^2 + 16mn^2o^2)$

(iii) $(-4m^2n^3o^3 + 4mn^3o^2 + 16mn^2o^2)$ (iv) $(-5m^2n^3o^3 + 4mn^3o^2 + 16mn^2o^2)$

(v) $(-4m^2n^3o^3 + 6mn^3o^2 + 16mn^2o^2)$

24. The value of $\frac{1}{2}(\frac{3}{4}jk + \frac{19}{20})$ is

(i) $(\frac{3}{8}jk + \frac{17}{40})$ (ii) $(\frac{3}{10}jk + \frac{19}{40})$

(iii) $(\frac{3}{8}jk + \frac{21}{40})$ (iv) $(\frac{1}{2}jk + \frac{19}{40})$

(v) $(\frac{3}{8}jk + \frac{19}{40})$

25. The value of $\frac{3}{4}r(\frac{2}{3}r^2s + \frac{1}{4})$ is

(i) $(\frac{1}{2}r^3s + \frac{3}{16}r)$ (ii) $(r^3s + \frac{3}{16}r)$

(iii) $(\frac{1}{4}r^3s + \frac{3}{16}r)$ (iv) $(\frac{1}{2}r^3s + \frac{1}{16}r)$

(v) $(\frac{1}{2}r^3s + \frac{5}{16}r)$

26. The value of $\frac{2}{3}eg(\frac{2}{5}f^2g + \frac{2}{3}fg)$ is

$$(i) \left(\frac{4}{15}ef^2g^2 + \frac{2}{3}efg^2 \right) \quad (ii) \left(\frac{4}{13}ef^2g^2 + \frac{4}{9}efg^2 \right)$$

$$(iii) \left(\frac{4}{15}ef^2g^2 + \frac{2}{9}efg^2 \right) \quad (iv) \left(\frac{4}{17}ef^2g^2 + \frac{4}{9}efg^2 \right)$$

$$(v) \left(\frac{4}{15}ef^2g^2 + \frac{4}{9}efg^2 \right)$$

27. The value of $\frac{1}{2}no \left(\frac{3}{5}m^2o + \frac{1}{2}mn^2o + \frac{1}{4}mno^2 \right)$ is

$$(i) \left(\frac{1}{4}m^2no^2 + \frac{1}{4}mn^3o^2 + \frac{1}{8}mn^2o^3 \right) \quad (ii) \left(\frac{3}{10}m^2no^2 - \frac{1}{4}mn^3o^2 + \frac{1}{8}mn^2o^3 \right)$$

$$(iii) \left(\frac{3}{10}m^2no^2 + \frac{3}{4}mn^3o^2 + \frac{1}{8}mn^2o^3 \right) \quad (iv) \left(\frac{3}{10}m^2no^2 + \frac{1}{4}mn^3o^2 + \frac{1}{8}mn^2o^3 \right)$$

$$(v) \left(\frac{3}{8}m^2no^2 + \frac{1}{4}mn^3o^2 + \frac{1}{8}mn^2o^3 \right)$$

The value of

28. $(-4kl - 6l) \times (-13k - 7l)$ is

$$(i) (51k^2l + 28kl^2 + 78kl + 42l^2)$$

$$(ii) (53k^2l + 28kl^2 + 78kl + 42l^2)$$

$$(iii) (52k^2l + 31kl^2 + 78kl + 42l^2)$$

$$(iv) (52k^2l + 28kl^2 + 78kl + 42l^2)$$

$$(v) (52k^2l + 25kl^2 + 78kl + 42l^2)$$

The value of

29. $(-4e^2f - 4f) \times (-5e^2f^2 - f)$ is

$$(i) (19e^4f^3 + 20e^2f^3 + 4e^2f^2 + 4f^2)$$

$$(ii) (20e^4f^3 + 22e^2f^3 + 4e^2f^2 + 4f^2)$$

$$(iii) (20e^4f^3 + 20e^2f^3 + 4e^2f^2 + 4f^2)$$

$$(iv) (21e^4f^3 + 20e^2f^3 + 4e^2f^2 + 4f^2)$$

$$(v) (20e^4f^3 + 17e^2f^3 + 4e^2f^2 + 4f^2)$$

The value of

30. $(-3mn + 6m) \times (-2mn - 6n) \times (6n - 3)$ is

$$(i) (36m^2n^3 - 90m^2n^2 + 36m^2n + 108mn^3 - 270mn^2 + 108mn)$$

$$(ii) (36m^2n^3 - 88m^2n^2 + 36m^2n + 108mn^3 - 270mn^2 + 108mn)$$

$$(iii) (37m^2n^3 - 90m^2n^2 + 36m^2n + 108mn^3 - 270mn^2 + 108mn)$$

$$(iv) (35m^2n^3 - 90m^2n^2 + 36m^2n + 108mn^3 - 270mn^2 + 108mn)$$

$$(v) (36m^2n^3 - 92m^2n^2 + 36m^2n + 108mn^3 - 270mn^2 + 108mn)$$

31. The value of $\frac{2}{5} \times \frac{1}{2}no$ is

$$(i) \frac{1}{3}no \quad (ii) \frac{1}{7}no \quad (iii) \frac{3}{5}no$$

$$(iv) \frac{1}{5}no \quad (v) (-\frac{1}{5}no)$$

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

$$(i) \frac{1}{8}xy \quad (ii) \frac{1}{10}xy \quad (iii) \frac{1}{12}xy$$

$$(iv) (-\frac{1}{10}xy) \quad (v) \frac{3}{10}xy$$

33. The value of $\frac{1}{2}nop \times \frac{1}{4}np$ is

$$(i) \frac{1}{6}n^2op^2 \quad (ii) \frac{1}{8}n^2op^2 \quad (iii) (-\frac{1}{8}n^2op^2)$$

$$(iv) \frac{1}{10}n^2op^2 \quad (v) \frac{3}{8}n^2op^2$$

34. The value of $\frac{4}{5}j \times \frac{1}{3} \times \frac{1}{3}i \times \frac{2}{3}hj$ is

$$(i) \frac{8}{135} hij^2 \quad (ii) \frac{2}{45} hij^2 \quad (iii) \frac{8}{137} hij^2$$

$$(iv) \frac{8}{133} hij^2 \quad (v) \frac{2}{27} hij^2$$

Assignment Key

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