EduSahara™ Assignment

Name : Multiplication of Algebraic Expressions

Chapter : Fundamental Concepts

Grade : ICSE Grade VIII

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

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

2. The value of $w \times 5w \times 2w \times w$ is

   (i) $11w^4$ (ii) $10w^4$ (iii) $13w^4$ (iv) $7w^4$ (v) $9w^4$

3. The value of $7g \times 2g^2$ is

   (i) $12g^3$ (ii) $14g^3$ (iii) $15g^3$ (iv) $16g^3$ (v) $13g^3$

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

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

5. The value of $(7u-6) \times (5u-8)$ is

   (i) $(38u^2-86u+48)$ (ii) $(34u^2-86u+48)$ (iii) $(36u^2-86u+48)$ (iv) $(35u^2-86u+48)$

   (v) $(33u^2-86u+48)$

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

   (i) $(16t^4+52t^3+26t^2-35t-10)$ (ii) $(17t^4+52t^3+26t^2-35t-10)$ (iii) $(13t^4+52t^3+26t^2-35t-10)$

   (iv) $(15t^4+52t^3+26t^2-35t-10)$ (v) $(14t^4+52t^3+26t^2-35t-10)$

7. The value of $(9e^2+6e+4) \times (-6e^2+4e+9)$ is

   (i) $(-52e^4+81e^2+70e+36)$ (ii) $(-55e^4+81e^2+70e+36)$ (iii) $(-54e^4+81e^2+70e+36)$

   (iv) $(-53e^4+81e^2+70e+36)$ (v) $(-56e^4+81e^2+70e+36)$

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

   (i) $(-54y^5-252y^4-172y^3+108y^2+84y)$ (ii) $(-59y^5-252y^4-172y^3+108y^2+84y)$

   (iii) $(-57y^5-252y^4-172y^3+108y^2+84y)$ (iv) $(-56y^5-252y^4-172y^3+108y^2+84y)$

   (v) $(-55y^5-252y^4-172y^3+108y^2+84y)$

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

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

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

(i) $\frac{1}{28} i^3$ (ii) $\frac{1}{32} i^3$ (iii) $\frac{1}{10} i^3$ (iv) $(-\frac{1}{30} i^3)$ (v) $\frac{1}{30} i^3$

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

(i) $\frac{2}{11} f^3$ (ii) $\frac{2}{7} f^3$ (iii) $\frac{4}{9} f^3$ (iv) 0 (v) $\frac{2}{9} f^3$

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

(i) $\frac{1}{7} b^5$ (ii) $\frac{1}{9} b^5$ (iii) $\frac{1}{3} b^5$ (iv) $(-\frac{1}{9} b^5)$ (v) $\frac{1}{11} b^5$

13. The product of the terms $(-2), (-4jk), 4, 5, (-3)$ is

(i) $(-479jk)$ (ii) $(-480jk)$ (iii) $(-478jk)$ (iv) $(-482jk)$ (v) $(-481jk)$

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

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

15. The product of the terms $(-4), (-3), 4, (-1), (-5)$ is

(i) 239 (ii) 240 (iii) 238 (iv) 241 (v) 242

16. The value of $2de \times 4$ is

(i) $9de$ (ii) $5de$ (iii) $8de$ (iv) $11de$ (v) $7de$

17. The value of $(-4) \times 9 \times op \times (-7)$ is

(i) $249op$ (ii) $253op$ (iii) $254op$ (iv) $252op$ (v) $251op$

18. The value of $6h \times 7hi$ is

(i) $43h^2 i$ (ii) $41h^2 i$ (iii) $40h^2 i$ (iv) $42h^2 i$ (v) $45h^2 i$

19. The value of $(-9) \times 4d \times 4ce \times (-9)$ is

(i) $1296cde$ (ii) $1297cde$ (iii) $1299cde$ (iv) $1293cde$ (v) $1295cde$

20. The value of $(-3)(t-5)$ is

(i) $(-4t+15)$ (ii) $(-3t+17)$ (iii) $(-3t+15)$ (iv) $(-3t+13)$ (v) $(-2t+15)$

21. The value of $2(-4j^2k+2)$ is

(i) $(-9j^2k+4)$ (ii) $(-8j^2k+4)$ (iii) $(-8j^2k+2)$ (iv) $(-7j^2k+4)$ (v) $(-8j^2k+7)$

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

(i) $(-12j^2l^3+23jkl^2)$ (ii) $(-11j^2l^3+20jkl^2)$ (iii) $(-12j^2l^3+20jkl^2)$ (iv) $(-13j^2l^3+20jkl^2)$

(v) $(-12j^2l^3+18jkl^2)$

23. The value of $5(5k^2l^2m-5k^2+4l)$ is

(i) $(25k^2l^2m-28k^2+20l)$ (ii) $(25k^2l^2m-23k^2+20l)$ (iii) $(26k^2l^2m-25k^2+20l)$

(iv) $(24k^2l^2m-25k^2+20l)$ (v) $(25k^2l^2m-25k^2+20l)$

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

(i) $(\frac{1}{4}n+\frac{1}{4}o)$ (ii) $(\frac{1}{6}n+\frac{1}{4}o)$ (iii) $(\frac{1}{2}n+\frac{1}{4}o)$ (iv) $(\frac{1}{4}n-\frac{1}{4}o)$ (v) $(\frac{1}{4}n+\frac{3}{4}o)$

25. The value of $\frac{3}{4}b(\frac{4}{5}a+\frac{2}{3})$ is

(i) $(\frac{3}{5}ab-\frac{1}{2}b)$ (ii) $(\frac{3}{5}ab+\frac{1}{2}b)$ (iii) $(ab+\frac{1}{2}b)$ (iv) $(\frac{3}{7}ab+\frac{1}{2}b)$ (v) $(\frac{3}{5}ab+\frac{3}{2}b)$

26. The value of $\frac{1}{2}q(\frac{2}{5}pq^2r^2+\frac{1}{2}qr)$ is

(i) $(\frac{1}{5}pq^3r^2+\frac{3}{4}q^2r)$ (ii) $(\frac{1}{7}pq^3r^2+\frac{1}{4}q^2r)$ (iii) $(\frac{1}{3}pq^3r^2+\frac{1}{4}q^2r)$ (iv) $(\frac{1}{5}pq^3r^2+\frac{1}{4}q^2r)$ (v) $(\frac{1}{5}pq^3r^2-\frac{1}{4}q^2r)$

27. The value of $\frac{1}{2}kl(\frac{3}{5}k^2l+\frac{1}{2}km^2+\frac{3}{4}l^2m^2)$ is

(i) $(\frac{3}{8}k^3l^2+\frac{1}{4}k^2lm^2+\frac{3}{8}kl^3m^2)$ (ii) $(\frac{1}{4}k^3l^2+\frac{1}{4}k^2lm^2+\frac{3}{8}kl^3m^2)$ (iii) $(\frac{3}{10}k^3l^2+\frac{1}{4}k^2lm^2+\frac{3}{8}kl^3m^2)$

(iv) $(\frac{3}{10}k^3l^2-\frac{1}{4}k^2lm^2+\frac{3}{8}kl^3m^2)$ (v) $(\frac{3}{10}k^3l^2+\frac{3}{4}k^2lm^2+\frac{3}{8}kl^3m^2)$

28. The value of $(6c+4)\times(6bc-5c)$ is

(i) $(36bc^2+24bc-30c^2-20c)$ (ii) $(36bc^2+27bc-30c^2-20c)$ (iii) $(37bc^2+24bc-30c^2-20c)$

(iv) $(35bc^2+24bc-30c^2-20c)$ (v) $(36bc^2+22bc-30c^2-20c)$

29. The value of $\frac{4}{5}uv\times\frac{1}{2}u$ is

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

30. The value of $\frac{2}{3}y \times \frac{1}{2}x \times \frac{2}{3} \times \frac{1}{2}y$ is

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

31. The value of $\frac{1}{2}lm \times \frac{1}{2}k^2 l^2 m^2$ is

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

32. The value of $\frac{1}{2} \times \frac{3}{5}uv \times \frac{1}{2} \times \frac{1}{2}u$ is

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

## Assignment Key

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

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