EduSahara™ Assignment

Name : Polynomials Multiplication

Chapter : Polynomials and Factorisation

Grade : SSC Grade IX

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1. The product of the terms $(-5), (-2u), 2, (-4), (-4)$ is

   (i) $322u$ (ii) $319u$ (iii) $318u$ (iv) $320u$ (v) $321u$

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

   (i) $(-16g^2)$ (ii) $(-17g^2)$ (iii) $(-15g^2)$ (iv) $(-14g^2)$ (v) $(-18g^2)$

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

   (i) 19 (ii) 22 (iii) 20 (iv) 17 (v) 21

4. The value of $(-2t) \times 9u$ is

   (i) $(-16tu)$ (ii) $(-18tu)$ (iii) $(-17tu)$ (iv) $(-21tu)$ (v) $(-19tu)$

5. The value of $4m \times (-6m) \times 8lm \times (-8m)$ is

   (i) $1533lm^4$ (ii) $1539lm^4$ (iii) $1536lm^4$ (iv) $1537lm^4$ (v) $1535lm^4$

6. The value of $(-5w^2x^2y^2) \times (-xy^2)$ is

   (i) $7w^2x^3y^4$ (ii) $4w^2x^3y^4$ (iii) $3w^2x^3y^4$ (iv) $5w^2x^3y^4$ (v) $6w^2x^3y^4$

7. The value of $3o \times 2o \times 2 \times (-6p)$ is

   (i) $(-72o^2p)$ (ii) $(-74o^2p)$ (iii) $(-73o^2p)$ (iv) $(-70o^2p)$ (v) $(-71o^2p)$

8. The value of $(-4)(3vw+12v)$ is

   (i) $(-13vw-48v)$ (ii) $(-12vw-48v)$ (iii) $(-12vw-46v)$ (iv) $(-11vw-48v)$ (v) $(-12vw-51v)$

9. The value of $2mn(3m^2n^2+4n^2)$ is

   (i) $(6m^3n^3+8mn^3)$ (ii) $(7m^3n^3+8mn^3)$ (iii) $(6m^3n^3+10mn^3)$ (iv) $(5m^3n^3+8mn^3)$

   (v) $(6m^3n^3+6mn^3)$

10. The value of $(-5op)(-4o^2p^2q^2+3)$ is

   (i) $(19o^3p^3q^2-15op)$ (ii) $(20o^3p^3q^2-15op)$ (iii) $(20o^3p^3q^2-12op)$ (iv) $(21o^3p^3q^2-15op)$

   (v) $(20o^3p^3q^2-18op)$

11. The value of $(-2g)(-4f^2g^2h+gh^2+5h)$ is

(i) $(8f^2g^3h-2g^2h^2-10gh)$ (ii) $(7f^2g^3h-2g^2h^2-10gh)$ (iii) $(8f^2g^3h+g^2h^2-10gh)$

(iv) $(8f^2g^3h-4g^2h^2-10gh)$ (v) $(9f^2g^3h-2g^2h^2-10gh)$

12. The value of $\frac{1}{3}(\frac{8}{5}m+\frac{2}{3})$ is

(i) $(\frac{8}{15}m+\frac{4}{9})$ (ii) $(\frac{8}{17}m+\frac{2}{9})$ (iii) $(\frac{8}{13}m+\frac{2}{9})$ (iv) $\frac{8}{15}m$ (v) $(\frac{8}{15}m+\frac{2}{9})$

13. The value of $\frac{3}{5}cd(\frac{1}{3}cd^2+\frac{4}{5}cd)$ is

(i) $(\frac{1}{5}c^2d^3+\frac{14}{25}c^2d^2)$ (ii) $(\frac{1}{5}c^2d^3+\frac{2}{5}c^2d^2)$ (iii) $(\frac{1}{3}c^2d^3+\frac{12}{25}c^2d^2)$ (iv) $(\frac{1}{7}c^2d^3+\frac{12}{25}c^2d^2)$

(v) $(\frac{1}{5}c^2d^3+\frac{12}{25}c^2d^2)$

14. The value of $\frac{1}{2}d(\frac{2}{3}b^2c^2+\frac{1}{2}b^2d^2)$ is

(i) $(\frac{1}{5}b^2c^2d+\frac{1}{4}b^2d^3)$ (ii) $(\frac{1}{3}b^2c^2d-\frac{1}{4}b^2d^3)$ (iii) $(\frac{1}{3}b^2c^2d+\frac{1}{4}b^2d^3)$ (iv) $(b^2c^2d+\frac{1}{4}b^2d^3)$

(v) $(\frac{1}{3}b^2c^2d+\frac{3}{4}b^2d^3)$

15. The value of $\frac{1}{3}bcd(\frac{1}{3}b^2cd^2+\frac{1}{4}bd+\frac{1}{2})$ is

(i) $(\frac{1}{9}b^3c^2d^3+\frac{1}{12}b^2cd^2+\frac{1}{6}bcd)$ (ii) $(\frac{1}{11}b^3c^2d^3+\frac{1}{12}b^2cd^2+\frac{1}{6}bcd)$ (iii) $(\frac{1}{9}b^3c^2d^3-\frac{1}{12}b^2cd^2+\frac{1}{6}bcd)$

(iv) $(\frac{1}{9}b^3c^2d^3+\frac{1}{4}b^2cd^2+\frac{1}{6}bcd)$ (v) $(\frac{1}{7}b^3c^2d^3+\frac{1}{12}b^2cd^2+\frac{1}{6}bcd)$

16. The value of $(2xy-6)\times(-6x-9y)$ is

(i) $(-11x^2y-18xy^2+36x+54y)$ (ii) $(-12x^2y-21xy^2+36x+54y)$ (iii) $(-12x^2y-16xy^2+36x+54y)$

(iv) $(-12x^2y-18xy^2+36x+54y)$ (v) $(-13x^2y-18xy^2+36x+54y)$

17. The value of $(5j^2k^2+3k)\times(-4j+8)$ is

(i) $(-19j^3k^2+40j^2k^2-12jk+24k)$ (ii) $(-20j^3k^2+43j^2k^2-12jk+24k)$

(iii) $(-20j^3k^2+37j^2k^2-12jk+24k)$ (iv) $(-21j^3k^2+40j^2k^2-12jk+24k)$

(v) $(-20j^3k^2+40j^2k^2-12jk+24k)$

18. The value of $(6ij-7ik-3k)\times(-ij-2ik+2jk)$ is

(i) $(-6i^2j^2-2i^2jk+14i^2k^2+12ij^2k-14ijk^2+3ijk+6ik^2-6jk^2)$

(ii) $(-7i^2j^2-5i^2jk+14i^2k^2+12ij^2k-14ijk^2+3ijk+6ik^2-6jk^2)$

(iii) $(-6i^2j^2-5i^2jk+14i^2k^2+12ij^2k-14ijk^2+3ijk+6ik^2-6jk^2)$

(iv) $(-5i^2j^2-5i^2jk+14i^2k^2+12ij^2k-14ijk^2+3ijk+6ik^2-6jk^2)$

(v) $(-6i^2j^2-7i^2jk+14i^2k^2+12ij^2k-14ijk^2+3ijk+6ik^2-6jk^2)$

19. The value of $(-4v+5)\times(8vw+1)\times(w+4)$ is

(i) $(-32v^2w^2-128v^2w+40vw^2+156vw-16v+5w+20)$

(ii) $(-33v^2w^2-128v^2w+40vw^2+156vw-16v+5w+20)$

(iii) $(-32v^2w^2-126v^2w+40vw^2+156vw-16v+5w+20)$

(iv) $(-32v^2w^2-131v^2w+40vw^2+156vw-16v+5w+20)$

(v) $(-31v^2w^2-128v^2w+40vw^2+156vw-16v+5w+20)$

20. The value of $\frac{1}{3}i\times\frac{1}{2}hi$ is

(i) $\frac{1}{6}hi^2$ (ii) $\frac{1}{4}hi^2$ (iii) $\frac{1}{8}hi^2$ (iv) $(-\frac{1}{6}hi^2)$ (v) $\frac{1}{2}hi^2$

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

(i) $\frac{1}{10}e^2f^3$ (ii) $\frac{1}{28}e^2f^3$ (iii) $\frac{1}{32}e^2f^3$ (iv) $(-\frac{1}{30}e^2f^3)$ (v) $\frac{1}{30}e^2f^3$

22. The value of $\frac{2}{3}t^2u^2v\times\frac{1}{2}u^2v^2$ is

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

23. The value of $\frac{3}{4}cde\times\frac{1}{2}cde\times\frac{2}{3}\times\frac{2}{3}d$ is

(i) $\frac{1}{4}c^2d^3e^2$ (ii) $\frac{1}{8}c^2d^3e^2$ (iii) $\frac{1}{2}c^2d^3e^2$ (iv) $(-\frac{1}{6}c^2d^3e^2)$ (v) $\frac{1}{6}c^2d^3e^2$

Assignment Key

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

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