EduSahara™ Assignment

Name : Polynomials Multiplication

Chapter : Polynomials and Factorisation

Grade : SSC Grade IX

1. The product of the terms $5p, pq, (-4q), 1, (-5)$ is

   (i) $101p^2q^2$ (ii) $100p^2q^2$ (iii) $102p^2q^2$ (iv) $99p^2q^2$ (v) $97p^2q^2$

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

   (i) $(-539d^2e)$ (ii) $(-541d^2e)$ (iii) $(-538d^2e)$ (iv) $(-540d^2e)$ (v) $(-542d^2e)$

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

   (i) 48 (ii) 49 (iii) 50 (iv) 51 (v) 53

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

   (i) $3t^2u$ (ii) $4t^2u$ (iii) $2t^2u$ (iv) $6t^2u$ (v) $5t^2u$

5. The value of $2x \times 4wx \times (-4) \times 7wx$ is

   (i) $(-225w^2x^3)$ (ii) $(-224w^2x^3)$ (iii) $(-223w^2x^3)$ (iv) $(-227w^2x^3)$ (v) $(-222w^2x^3)$

6. The value of $pr^2 \times 7p^2q^2$ is

   (i) $4p^3q^2r^2$ (ii) $8p^3q^2r^2$ (iii) $10p^3q^2r^2$ (iv) $6p^3q^2r^2$ (v) $7p^3q^2r^2$

7. The value of $(-vx) \times (-2wx) \times (-9v) \times 4w$ is

   (i) $(-73v^2w^2x^2)$ (ii) $(-71v^2w^2x^2)$ (iii) $(-75v^2w^2x^2)$ (iv) $(-72v^2w^2x^2)$ (v) $(-69v^2w^2x^2)$

8. The value of $(-3)(v+8w)$ is

   (i) $(-3v-27w)$ (ii) $(-4v-24w)$ (iii) $(-3v-24w)$ (iv) $(-2v-24w)$ (v) $(-3v-22w)$

9. The value of $2l(4l^2m+lm)$ is

   (i) $(7l^3m+2l^2m)$ (ii) $(8l^3m+4l^2m)$ (iii) $(9l^3m+2l^2m)$ (iv) $(8l^3m+2l^2m)$ (v) $8l^3m$

10. The value of $2eg(-e^2f^2g+2efg)$ is

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

    (v) $(-3e^3f^2g^2+4e^2fg^2)$

11. The value of $x(-5wy^2+3x^2y-xy^2)$ is

    (i) $(-6wxy^2+3x^3y-x^2y^2)$ (ii) $(-5wxy^2+6x^3y-x^2y^2)$ (iii) $(-5wxy^2+3x^3y-x^2y^2)$

    (iv) $(-4wxy^2+3x^3y-x^2y^2)$ (v) $(-5wxy^2+x^3y-x^2y^2)$

12. The value of $\frac{1}{2}(\frac{1}{3}vw+\frac{3}{4}w)$ is

(i) $(\frac{1}{8}vw+\frac{3}{8}w)$ (ii) $(\frac{1}{6}vw+\frac{1}{8}w)$ (iii) $(\frac{1}{4}vw+\frac{3}{8}w)$ (iv) $(\frac{1}{6}vw+\frac{5}{8}w)$ (v) $(\frac{1}{6}vw+\frac{3}{8}w)$

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

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

14. The value of $\frac{1}{2}(\frac{1}{2}f^2+\frac{1}{5}g^2)$ is

(i) $(\frac{1}{4}f^2+\frac{3}{10}g^2)$ (ii) $(\frac{1}{4}f^2+\frac{1}{10}g^2)$ (iii) $(\frac{1}{4}f^2-\frac{1}{10}g^2)$ (iv) $(\frac{1}{2}f^2+\frac{1}{10}g^2)$ (v) $(\frac{1}{6}f^2+\frac{1}{10}g^2)$

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

(i) $(\frac{1}{6}q^3r^2s^2+\frac{2}{9}q^2r^2+\frac{1}{12}qr)$ (ii) $(\frac{1}{4}q^3r^2s^2+\frac{2}{9}q^2r^2+\frac{1}{12}qr)$ (iii) $(\frac{1}{4}q^3r^2s^2+\frac{4}{9}q^2r^2+\frac{1}{12}qr)$

(iv) $(\frac{1}{2}q^3r^2s^2+\frac{2}{9}q^2r^2+\frac{1}{12}qr)$ (v) $(\frac{1}{4}q^3r^2s^2+\frac{1}{12}qr)$

16. The value of $(6rs-2r)\times(4r+8)$ is

(i) $(24r^2s-8r^2+48rs-16r)$ (ii) $(24r^2s-6r^2+48rs-16r)$ (iii) $(25r^2s-8r^2+48rs-16r)$

(iv) $(24r^2s-11r^2+48rs-16r)$ (v) $(23r^2s-8r^2+48rs-16r)$

17. The value of $(5w-2)\times(8w^2-8)$ is

(i) $(39w^3-16w^2-40w+16)$ (ii) $(40w^3-19w^2-40w+16)$ (iii) $(40w^3-16w^2-40w+16)$

(iv) $(40w^3-14w^2-40w+16)$ (v) $(41w^3-16w^2-40w+16)$

18. The value of $(-7fg-2g-5)\times(-9fgh-3h+3)$ is

(i) $(63f^2g^2h+15fg^2h+66fgh-21fg+6gh-6g+15h-15)$

(ii) $(63f^2g^2h+21fg^2h+66fgh-21fg+6gh-6g+15h-15)$

(iii) $(64f^2g^2h+18fg^2h+66fgh-21fg+6gh-6g+15h-15)$

(iv) $(63f^2g^2h+18fg^2h+66fgh-21fg+6gh-6g+15h-15)$

(v) $(62f^2g^2h+18fg^2h+66fgh-21fg+6gh-6g+15h-15)$

19. The value of $(4wx+9)\times(3x+2)\times(-2w-9x)$ is

(i) $(-24w^2x^2-14w^2x-108wx^3-72wx^2-54wx-36w-243x^2-162x)$

(ii) $(-24w^2x^2-18w^2x-108wx^3-72wx^2-54wx-36w-243x^2-162x)$

(iii) $(-24w^2x^2-16w^2x-108wx^3-72wx^2-54wx-36w-243x^2-162x)$

(iv) $(-25w^2x^2-16w^2x-108wx^3-72wx^2-54wx-36w-243x^2-162x)$

(v) $(-23w^2x^2-16w^2x-108wx^3-72wx^2-54wx-36w-243x^2-162x)$

20. The value of $\frac{1}{2}m\times\frac{1}{3}mn$ is

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

21. The value of $\frac{2}{5}kl\times\frac{1}{3}k\times\frac{1}{3}kl\times\frac{1}{5}kl$ is

(i) $\frac{2}{223}k^4l^3$ (ii) $\frac{2}{225}k^4l^3$ (iii) 0 (iv) $\frac{2}{227}k^4l^3$ (v) $\frac{4}{225}k^4l^3$

22. The value of $\frac{3}{5}c\times\frac{1}{2}b^2cd$ is

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

23. The value of $\frac{3}{4}fg\times\frac{1}{3}\times\frac{1}{2}gh\times\frac{1}{2}fh$ is

(i) $\frac{3}{16}f^2g^2h^2$ (ii) $\frac{1}{18}f^2g^2h^2$ (iii) $(-\frac{1}{16}f^2g^2h^2)$ (iv) $\frac{1}{14}f^2g^2h^2$ (v) $\frac{1}{16}f^2g^2h^2$

Assignment Key

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