EduSahara™ Assignment

Name : Polynomials Multiplication

Chapter : Polynomials and Factorisation

Grade : SSC Grade IX

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

   (i) $201m^2n^2$ (ii) $202m^2n^2$ (iii) $199m^2n^2$ (iv) $200m^2n^2$ (v) $198m^2n^2$

2. The product of the terms $4m, (-3kl), 3m, (-4), 1$ is

   (i) $142klm^2$ (ii) $143klm^2$ (iii) $145klm^2$ (iv) $147klm^2$ (v) $144klm^2$

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

   (i) (-749) (ii) (-751) (iii) (-750) (iv) (-747) (v) (-752)

4. The value of $(-d) \times (-6)$ is

   (i) $3d$ (ii) $6d$ (iii) $7d$ (iv) $5d$ (v) $8d$

5. The value of $4i \times (-9h) \times (-4h) \times 5h$ is

   (i) $718h^3i$ (ii) $719h^3i$ (iii) $720h^3i$ (iv) $721h^3i$ (v) $723h^3i$

6. The value of $(-7i^2j^2k) \times 6ik^2$ is

   (i) $(-43i^3j^2k^3)$ (ii) $(-41i^3j^2k^3)$ (iii) $(-40i^3j^2k^3)$ (iv) $(-44i^3j^2k^3)$ (v) $(-42i^3j^2k^3)$

7. The value of $8 \times (-8j) \times 8jk \times 4j$ is

   (i) $(-2049j^3k)$ (ii) $(-2047j^3k)$ (iii) $(-2046j^3k)$ (iv) $(-2050j^3k)$ (v) $(-2048j^3k)$

8. The value of $(-4)(4u-2v)$ is

   (i) $(-16u+8v)$ (ii) $(-17u+8v)$ (iii) $(-16u+5v)$ (iv) $(-16u+11v)$ (v) $(-15u+8v)$

9. The value of $(-r)(-rs-5r)$ is

   (i) $(2r^2s+5r^2)$ (ii) (r^2s+8r^2) (iii) (r^2s+3r^2) (iv) (r^2s+5r^2) (v) $5r^2$

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

    (i) $(8o^3pq-6o^2p^2)$ (ii) $(8o^3pq-4o^2p^2)$ (iii) $(8o^3pq-8o^2p^2)$ (iv) $(7o^3pq-6o^2p^2)$

    (v) $(9o^3pq-6o^2p^2)$

11. The value of $(-5o)(-3no^2p^2+4nop^2-o^2p^2)$ is

    (i) $(14no^3p^2-20no^2p^2+5o^3p^2)$ (ii) $(15no^3p^2-17no^2p^2+5o^3p^2)$ (iii) $(16no^3p^2-20no^2p^2+5o^3p^2)$

    (iv) $(15no^3p^2-23no^2p^2+5o^3p^2)$ (v) $(15no^3p^2-20no^2p^2+5o^3p^2)$

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

(i) $(\frac{1}{6}jk+\frac{1}{5})$ (ii) $(\frac{1}{2}jk+\frac{1}{5})$ (iii) $(\frac{1}{4}jk+\frac{1}{5})$ (iv) $(\frac{1}{4}jk+\frac{3}{5})$ (v) $(\frac{1}{4}jk-\frac{1}{5})$

13. The value of $\frac{1}{4}y(\frac{1}{2}x^2y+\frac{1}{2}x^2)$ is

(i) $(\frac{1}{8}x^2y^2-\frac{1}{8}x^2y)$ (ii) $(\frac{1}{6}x^2y^2+\frac{1}{8}x^2y)$ (iii) $(\frac{1}{8}x^2y^2+\frac{3}{8}x^2y)$ (iv) $(\frac{1}{8}x^2y^2+\frac{1}{8}x^2y)$ (v) $(\frac{1}{10}x^2y^2+\frac{1}{8}x^2y)$

14. The value of $\frac{2}{3}df(\frac{3}{4}d+\frac{1}{4}f)$ is

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

15. The value of $\frac{4}{5}nop(\frac{1}{2}n^2p+\frac{1}{3}no^2p^2+\frac{3}{4}np^2)$ is

(i) $(\frac{2}{5}n^3op^2+\frac{4}{15}n^2o^3p^3+\frac{3}{5}n^2op^3)$ (ii) $(\frac{2}{7}n^3op^2+\frac{4}{15}n^2o^3p^3+\frac{3}{5}n^2op^3)$

(iii) $(\frac{2}{3}n^3op^2+\frac{4}{15}n^2o^3p^3+\frac{3}{5}n^2op^3)$ (iv) $(\frac{2}{5}n^3op^2+\frac{2}{5}n^2o^3p^3+\frac{3}{5}n^2op^3)$

(v) $(\frac{2}{5}n^3op^2+\frac{2}{15}n^2o^3p^3+\frac{3}{5}n^2op^3)$

16. The value of $(-5lm+10m)\times(-8lm-2m)$ is

(i) $(39l^2m^2-70lm^2-20m^2)$ (ii) $(40l^2m^2-70lm^2-20m^2)$ (iii) $(40l^2m^2-72lm^2-20m^2)$

(iv) $(41l^2m^2-70lm^2-20m^2)$ (v) $(40l^2m^2-67lm^2-20m^2)$

17. The value of $(5v^2w^2+6vw)\times(-4vw+4v)$ is

(i) $(-20v^3w^3+20v^3w^2-24v^2w^2+24v^2w)$ (ii) $(-20v^3w^3+22v^3w^2-24v^2w^2+24v^2w)$

(iii) $(-21v^3w^3+20v^3w^2-24v^2w^2+24v^2w)$ (iv) $(-19v^3w^3+20v^3w^2-24v^2w^2+24v^2w)$

(v) $(-20v^3w^3+18v^3w^2-24v^2w^2+24v^2w)$

18. The value of $(3tuv-9tv+8u)\times(5tuv-3tv-6t)$ is

(i) $(15t^2u^2v^2-57t^2uv^2-18t^2uv+27t^2v^2+54t^2v+40tu^2v-24tuv-48tu)$

(ii) $(15t^2u^2v^2-52t^2uv^2-18t^2uv+27t^2v^2+54t^2v+40tu^2v-24tuv-48tu)$

(iii) $(16t^2u^2v^2-54t^2uv^2-18t^2uv+27t^2v^2+54t^2v+40tu^2v-24tuv-48tu)$

(iv) $(15t^2u^2v^2-54t^2uv^2-18t^2uv+27t^2v^2+54t^2v+40tu^2v-24tuv-48tu)$

(v) $(14t^2u^2v^2-54t^2uv^2-18t^2uv+27t^2v^2+54t^2v+40tu^2v-24tuv-48tu)$

19. The value of $(8h-5i)\times(-4hi+4i)\times(2hi-2)$ is

(i) $(-64h^3i^2+42h^2i^3+64h^2i^2+64h^2i-40hi^3-40hi^2-64hi+40i^2)$

(ii) $(-64h^3i^2+40h^2i^3+64h^2i^2+64h^2i-40hi^3-40hi^2-64hi+40i^2)$

(iii) $(-63h^3i^2+40h^2i^3+64h^2i^2+64h^2i-40hi^3-40hi^2-64hi+40i^2)$

(iv) $(-65h^3i^2+40h^2i^3+64h^2i^2+64h^2i-40hi^3-40hi^2-64hi+40i^2)$

(v) $(-64h^3i^2+37h^2i^3+64h^2i^2+64h^2i-40hi^3-40hi^2-64hi+40i^2)$

20. The value of $\frac{1}{4}\times\frac{2}{5}hi$ is

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

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

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

22. The value of $\frac{3}{5}m^2no^2\times\frac{1}{2}m^2o^2$ is

(i) $\frac{3}{8}m^4no^4$ (ii) $\frac{1}{2}m^4no^4$ (iii) $\frac{3}{10}m^4no^4$ (iv) $\frac{1}{10}m^4no^4$ (v) $\frac{1}{4}m^4no^4$

23. The value of $\frac{1}{4}qr\times\frac{2}{3}q\times\frac{1}{2}p\times\frac{1}{2}p$ is

(i) $\frac{1}{26}p^2q^2r$ (ii) $\frac{1}{22}p^2q^2r$ (iii) $\frac{1}{8}p^2q^2r$ (iv) $(-\frac{1}{24}p^2q^2r)$ (v) $\frac{1}{24}p^2q^2r$

Assignment Key

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