

EduSahara™ Learning Center Assignment**Grade : Class IX, SSC****Chapter : Polynomials and Factorisation****Name : Polynomials Multiplication**

The product of the terms

1. $t, 5, 2t, 4, 5$ is

(i) $197t^2$ (ii) $203t^2$ (iii) $199t^2$

(iv) $200t^2$ (v) $201t^2$

The product of the terms

2. $5g, (-4hi), 5, (-2), (-5)$ is

(i) $(-1001ghi)$ (ii) $(-1002ghi)$ (iii) $(-997ghi)$

(iv) $(-999ghi)$ (v) $(-1000ghi)$

The product of the terms

3. $3, (-2), (-2), 5, 4$ is

(i) 237 (ii) 239 (iii) 243

(iv) 241 (v) 240

The value of

4. $(-9j) \times jk$ is

(i) $(-12j^2k)$ (ii) $(-8j^2k)$ (iii) $(-10j^2k)$

(iv) $(-6j^2k)$ (v) $(-9j^2k)$

The value of

5. $ij \times (-8i) \times 6ij \times 5ij$ is

(i) $(-241i^4j^3)$ (ii) $(-240i^4j^3)$ (iii) $(-238i^4j^3)$

(iv) $(-239i^4j^3)$ (v) $(-242i^4j^3)$

The value of

6. $(-6i^2) \times 6g^2hi^2$ is

(i) $(-33g^2hi^4)$ (ii) $(-37g^2hi^4)$ (iii) $(-35g^2hi^4)$

(iv) $(-38g^2hi^4)$ (v) $(-36g^2hi^4)$

The value of

7. $(-6xy) \times (-5y) \times 3wy \times (-y)$ is

(i) $(-88wxy^4)$ (ii) $(-92wxy^4)$ (iii) $(-91wxy^4)$

(iv) $(-89wxy^4)$ (v) $(-90wxy^4)$

8. The value of $1(-5n-1)$ is

(i) $(-5n-3)$ (ii) $(-4n-1)$

(iii) $(-6n-1)$ (iv) $(-5n+1)$

(v) $(-5n-1)$

9. The value of $4(-5t-1)$ is

(i) $(-20t-4)$ (ii) $(-20t-2)$

(iii) $(-20t-6)$ (iv) $(-21t-4)$

(v) $(-19t-4)$

10. The value of $(-3xz)(5x^2y^2z^2-2x^2y^2z)$ is

(i) $(-15x^3y^2z^3+4x^3y^2z^2)$ (ii) $(-16x^3y^2z^3+6x^3y^2z^2)$

(iii) $(-14x^3y^2z^3+6x^3y^2z^2)$ (iv) $(-15x^3y^2z^3+6x^3y^2z^2)$

(v) $(-15x^3y^2z^3+9x^3y^2z^2)$

11. The value of $w(-2u^2v^2-2u^2w+uv^2)$ is

(i) $(-2u^2v^2w+uv^2w)$ (ii) $(-3u^2v^2w-2u^2w^2+uv^2w)$

(iii) $(-2u^2v^2w-2u^2w^2+uv^2w)$ (iv) $(-2u^2v^2w-5u^2w^2+uv^2w)$

(v) $(-u^2v^2w-2u^2w^2+uv^2w)$

12. $\frac{1}{2} \times \frac{2}{2}$

The value of $\frac{1}{2} (\frac{1}{5}ef + \frac{1}{3}f)$ is

- (i) $(\frac{1}{5}ef + f)$ (ii) $(\frac{1}{5}ef + \frac{1}{3}f)$
 (iii) $(\frac{1}{7}ef + \frac{1}{3}f)$ (iv) $(\frac{1}{5}ef - \frac{1}{3}f)$
 (v) $(\frac{1}{3}ef + \frac{1}{3}f)$
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13. The value of $\frac{1}{2} (\frac{1}{3}x^2 + \frac{1}{3}xy^2)$ is

- (i) $(\frac{1}{6}x^2 + \frac{1}{6}xy^2)$ (ii) $(\frac{1}{6}x^2 + \frac{1}{2}xy^2)$
 (iii) $(\frac{1}{8}x^2 + \frac{1}{6}xy^2)$ (iv) $(\frac{1}{6}x^2 - \frac{1}{6}xy^2)$
 (v) $(\frac{1}{4}x^2 + \frac{1}{6}xy^2)$
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14. The value of $\frac{1}{3}q (\frac{4}{5}qr + \frac{1}{4}rs)$ is

- (i) $(\frac{4}{13}q^2r + \frac{1}{12}qrs)$ (ii) $(\frac{4}{15}q^2r - \frac{1}{12}qrs)$
 (iii) $(\frac{4}{15}q^2r + \frac{1}{4}qrs)$ (iv) $(\frac{4}{17}q^2r + \frac{1}{12}qrs)$
 (v) $(\frac{4}{15}q^2r + \frac{1}{12}qrs)$
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15. The value of $\frac{3}{4}vw (\frac{1}{2}v^2x + \frac{2}{3}w^2 + \frac{2}{5}wx^2)$ is

- (i) $(\frac{3}{8}v^3wx + \frac{3}{2}vw^3 + \frac{3}{10}vw^2x^2)$ (ii) $(\frac{3}{8}v^3wx + \frac{1}{2}vw^3 + \frac{3}{10}vw^2x^2)$
 (iii) $(\frac{3}{10}v^3wx + \frac{1}{2}vw^3 + \frac{3}{10}vw^2x^2)$ (iv) $(\frac{1}{2}v^3wx + \frac{1}{2}vw^3 + \frac{3}{10}vw^2x^2)$
 (v) $(\frac{3}{8}v^3wx - \frac{1}{2}vw^3 + \frac{3}{10}vw^2x^2)$
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The value of

16. $(-6tu - 9) \times (-7tu - 6u)$ is

- (i) $(43t^2u^2 + 36tu^2 + 63tu + 54u)$
 (ii) $(42t^2u^2 + 38tu^2 + 63tu + 54u)$
 (iii) $(42t^2u^2 + 34tu^2 + 63tu + 54u)$
 (iv) $(42t^2u^2 + 36tu^2 + 63tu + 54u)$

(v) $(41t^2u^2 + 36tu^2 + 63tu + 54u)$

The value of

17. $(e^2 + 8) \times (-8de^2 + 4de)$ is

(i) $(-7de^4 + 4de^3 - 64de^2 + 32de)$

(ii) $(-8de^4 + 7de^3 - 64de^2 + 32de)$

(iii) $(-8de^4 + 4de^3 - 64de^2 + 32de)$

(iv) $(-9de^4 + 4de^3 - 64de^2 + 32de)$

(v) $(-8de^4 + 2de^3 - 64de^2 + 32de)$

The value of

18. $(-2uvw + 5u - 3v) \times (-8uv + 2w - 9)$ is

(i) $(17u^2v^2w - 40u^2v + 24uv^2 - 4uvw^2 + 18uvw + 10uw - 45u - 6vw + 27v)$

(ii) $(16u^2v^2w - 42u^2v + 24uv^2 - 4uvw^2 + 18uvw + 10uw - 45u - 6vw + 27v)$

(iii) $(15u^2v^2w - 40u^2v + 24uv^2 - 4uvw^2 + 18uvw + 10uw - 45u - 6vw + 27v)$

(iv) $(16u^2v^2w - 37u^2v + 24uv^2 - 4uvw^2 + 18uvw + 10uw - 45u - 6vw + 27v)$

(v) $(16u^2v^2w - 40u^2v + 24uv^2 - 4uvw^2 + 18uvw + 10uw - 45u - 6vw + 27v)$

The value of

19. $(-k - 4) \times (-2k + 7) \times (-8jk - 7k)$ is

(i) $(-16jk^3 - 11jk^2 + 224jk - 14k^3 - 7k^2 + 196k)$

(ii) $(-16jk^3 - 6jk^2 + 224jk - 14k^3 - 7k^2 + 196k)$

(iii) $(-16jk^3 - 8jk^2 + 224jk - 14k^3 - 7k^2 + 196k)$

(iv) $(-15jk^3 - 8jk^2 + 224jk - 14k^3 - 7k^2 + 196k)$

(v) $(-17jk^3 - 8jk^2 + 224jk - 14k^3 - 7k^2 + 196k)$

20. The value of $\frac{1}{5}gh \times \frac{1}{2}h$ is

(i) $\frac{3}{10}gh^2$ (ii) $(-\frac{1}{10}gh^2)$ (iii) $\frac{1}{8}gh^2$

(iv) $\frac{1}{12}gh^2$ (v) $\frac{1}{10}gh^2$

21. The value of $\frac{2}{5}no \times \frac{1}{4} \times \frac{2}{5}no \times \frac{1}{4}n$ is

(i) $\frac{1}{100}n^3o^2$ (ii) $\frac{1}{98}n^3o^2$ (iii) $\frac{1}{102}n^3o^2$

(iv) $(-\frac{1}{100}n^3o^2)$ (v) $\frac{3}{100}n^3o^2$

22. The value of $\frac{2}{3}c^2d^2e \times \frac{1}{2}c^2e$ is

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

(iv) $c^4d^2e^2$

23. The value of $\frac{1}{5}gh \times \frac{3}{4}hi \times \frac{1}{2}i \times \frac{2}{5}h$ is

(i) $\frac{1}{34}gh^3i^2$ (ii) $\frac{3}{100}gh^3i^2$ (iii) $\frac{3}{98}gh^3i^2$

(iv) $\frac{1}{100}gh^3i^2$ (v) $\frac{1}{20}gh^3i^2$

Assignment Key

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