



1. Which of the following terms can be subtracted from  $2n^2o^2p^2$  ?

- (i)  $8n^2o^2p^2$  (ii)  $n^2o^2$  (iii)  $4no^2p^2$  (iv)  $(-8n^2)$  (v)  $nop^2$

2. The value of  $\frac{1}{2}(\frac{4}{5}m^2no^2 + \frac{1}{5}mn^2o^2)$  is

- (i)  $(\frac{2}{5}m^2no^2 + \frac{1}{10}mn^2o^2)$  (ii)  $(\frac{2}{3}m^2no^2 + \frac{1}{10}mn^2o^2)$  (iii)  $(\frac{2}{5}m^2no^2 + \frac{3}{10}mn^2o^2)$  (iv)  $(\frac{2}{7}m^2no^2 + \frac{1}{10}mn^2o^2)$   
(v)  $(\frac{2}{5}m^2no^2 - \frac{1}{10}mn^2o^2)$

3. The value of  $8v + (-7v) + 2v + (-v)$  is

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

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

- (i)  $\frac{1}{5}wx^2$  (ii)  $\frac{1}{17}wx^2$  (iii)  $\frac{1}{15}wx^2$  (iv)  $\frac{1}{13}wx^2$  (v)  $(-\frac{1}{15}wx^2)$

5. Which of the following terms can be subtracted from  $(-8l^2m^2k)$  ?

- (i)  $(-7k^2l^2m^2)$  (ii)  $9kl^2m$  (iii)  $9k^2l^2m^2$  (iv)  $(-4klm^2)$  (v)  $(-6k^2l^2m)$

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

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

7. The expanded form of  $(x+3)(x+5)(x+8)(x+7)$  is

- (i)  $(4x^4 + 23x^3 + 191x^2 + 673x + 840)$  (ii)  $(2x^4 + 23x^3 + 191x^2 + 673x + 840)$  (iii)  $(23x^3 + 191x^2 + 673x + 840)$   
(iv)  $(-2x^4 + 23x^3 + 191x^2 + 673x + 840)$  (v)  $(x^4 + 23x^3 + 191x^2 + 673x + 840)$

8. The value of  $(-8f^2 + 6f - 7) + (-3f^2 + 7f - 9)$  is

- (i)  $(-12f^2 + 13f - 16)$  (ii)  $(-10f^2 + 13f - 16)$  (iii)  $(-9f^2 + 13f - 16)$  (iv)  $(-14f^2 + 13f - 16)$   
(v)  $(-11f^2 + 13f - 16)$

9. Which of the following terms is a like term of  $(-3m^2)$ ?

- (i)  $5m^3$  (ii)  $(-9)$  (iii)  $(-3m^4)$  (iv)  $(-5m^2)$  (v)  $6m$

10. Which of the following is a like term of  $8kl$ ?

- (i)  $8kl$  (ii)  $5m$  (iii)  $9lm$  (iv)  $(-2km)$  (v)  $(-8klm)$

11. The value of  $(4i - 3jk + 2j) \times (8i - 2k - 1)$  is

- (i)  $(32i^2 - 22ijk + 16ij - 8ik - 4i + 6jk^2 - jk - 2j)$  (ii)  $(32i^2 - 27ijk + 16ij - 8ik - 4i + 6jk^2 - jk - 2j)$   
(iii)  $(32i^2 - 24ijk + 16ij - 8ik - 4i + 6jk^2 - jk - 2j)$  (iv)  $(33i^2 - 24ijk + 16ij - 8ik - 4i + 6jk^2 - jk - 2j)$   
(v)  $(31i^2 - 24ijk + 16ij - 8ik - 4i + 6jk^2 - jk - 2j)$

12. The value of  $\frac{1}{4}m - \frac{1}{2}m$  is

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

13. The value of  $(2m^5 + 7m^2 + 5) + (-m^5 + m^3 + 2m^2)$  is

- (i)  $(m^3 + 9m^2 + 5)$  (ii)  $(-m^5 + m^3 + 9m^2 + 5)$  (iii)  $(m^5 + m^3 + 9m^2 + 5)$  (iv)  $(4m^5 + m^3 + 9m^2 + 5)$   
(v)  $(2m^5 + m^3 + 9m^2 + 5)$

14. The value of  $6hi \times (-8i) \times (-2h) \times (-7hi)$  is

- (i)  $(-671h^3i^3)$  (ii)  $(-673h^3i^3)$  (iii)  $(-669h^3i^3)$  (iv)  $(-675h^3i^3)$  (v)  $(-672h^3i^3)$

15. The value of  $(-7y^3 - 9y + 8) - (-y^5 + y^3 - 6) - (-2y^4 - 9y^2 - 7)$  is

- (i)  $(y^5 + 2y^4 - 8y^3 + 9y^2 - 9y + 21)$  (ii)  $(2y^4 - 8y^3 + 9y^2 - 9y + 21)$  (iii)  $(2y^5 + 2y^4 - 8y^3 + 9y^2 - 9y + 21)$   
(iv)  $(3y^5 + 2y^4 - 8y^3 + 9y^2 - 9y + 21)$  (v)  $(-2y^5 + 2y^4 - 8y^3 + 9y^2 - 9y + 21)$

16. Which of the following is a like term of  $5ij^2$ ?

- (i)  $4ij^2$  (ii)  $4j$  (iii)  $(-8i^2j)$  (iv)  $8ij$  (v)  $1$

17. The value of  $(-3uv - 4v) \times (-9v + 8)$  is

- (i)  $(28uv^2 - 24uv + 36v^2 - 32v)$  (ii)  $(27uv^2 - 27uv + 36v^2 - 32v)$  (iii)  $(26uv^2 - 24uv + 36v^2 - 32v)$   
(iv)  $(27uv^2 - 22uv + 36v^2 - 32v)$  (v)  $(27uv^2 - 24uv + 36v^2 - 32v)$

18. The value of  $(-2vwx) + (-8vwx)$  is

- (i)  $(-8vwx)$  (ii)  $(-9vwx)$  (iii)  $(-11vwx)$  (iv)  $(-10vwx)$  (v)  $(-12vwx)$

19. The value of  $\frac{1}{3}b^5 - \frac{4}{5}b^5 - \frac{1}{2}b^5$  is

- (i)  $(-\frac{29}{28}b^5)$  (ii)  $(-\frac{29}{30}b^5)$  (iii)  $(-\frac{29}{32}b^5)$  (iv)  $(-\frac{31}{30}b^5)$  (v)  $(-\frac{9}{10}b^5)$

20. The value of  $(-p)(n^2op^2 - 3nop + 5o^2)$  is

- (i)  $(3nop^2 - 5o^2p)$  (ii)  $(-2n^2op^3 + 3nop^2 - 5o^2p)$  (iii)  $(-n^2op^3 - 5o^2p)$  (iv)  $(-n^2op^3 + 3nop^2 - 5o^2p)$   
(v)  $(-n^2op^3 + 5nop^2 - 5o^2p)$

21. The value of  $(-8x^5 + 7x^4 + 2x) + (-x^4 - 6x^3 + 1) + (3x^3 - 7x - 3) + (4x^5 - x^4 + 6x)$  is

- (i)  $(-4x^5 + 5x^4 - 3x^3 + x - 2)$  (ii)  $(-3x^5 + 5x^4 - 3x^3 + x - 2)$  (iii)  $(-5x^5 + 5x^4 - 3x^3 + x - 2)$   
(iv)  $(-2x^5 + 5x^4 - 3x^3 + x - 2)$  (v)  $(-6x^5 + 5x^4 - 3x^3 + x - 2)$

22. Which of the following is a like term of  $8o^2q$ ?

- (i)  $(-2pq^2)$  (ii)  $4o^2pq$  (iii)  $(-9o^2q)$  (iv)  $5q$  (v)  $2op$

23. The value of  $\frac{1}{2} \times \frac{2}{3}t \times \frac{1}{2}t \times \frac{1}{5}t$  is

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

24. The value of  $(-5e) + (-6e)$  is

- (i)  $(-9e)$  (ii)  $(-10e)$  (iii)  $(-14e)$  (iv)  $(-11e)$  (v)  $(-12e)$

25. The value of  $(-6xy - 6y^2) \times (-8x^2y + 5y^2)$  is

- (i)  $(47x^3y^2 + 48x^2y^3 - 30xy^3 - 30y^4)$  (ii)  $(49x^3y^2 + 48x^2y^3 - 30xy^3 - 30y^4)$   
(iii)  $(48x^3y^2 + 48x^2y^3 - 30xy^3 - 30y^4)$  (iv)  $(48x^3y^2 + 46x^2y^3 - 30xy^3 - 30y^4)$   
(v)  $(48x^3y^2 + 51x^2y^3 - 30xy^3 - 30y^4)$

## Assignment Key

1) (i)	2) (i)	3) (i)	4) (iii)	5) (iii)	6) (ii)
7) (v)	8) (v)	9) (iv)	10) (i)	11) (iii)	12) (iii)
13) (iii)	14) (v)	15) (i)	16) (i)	17) (v)	18) (iv)
19) (ii)	20) (iv)	21) (i)	22) (iii)	23) (i)	24) (iv)
25) (iii)					

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