EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Operations on Algebraic Expressions

Grade : ICSE Grade VI

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1. Which of the following is a like term of d^2e^2c ?

   (i) $(-7cd^2e^2)$ (ii) $(-8c^2d^2e)$ (iii) $(-3c^2d^2e^2)$ (iv) $6cd^2e$ (v) $6c^2de$

2. Which of the following terms can be subtracted from $8ijh$?

   (i) $(-7hi^2j^2)$ (ii) $(-3h^2ij)$ (iii) $2hij$ (iv) $9h^2i^2j$ (v) h^2ij^2

3. The value of $6bc \times (-5b) \times (-4b) \times (-4b)$ is

   (i) $(-481b^4c)$ (ii) $(-478b^4c)$ (iii) $(-483b^4c)$ (iv) $(-479b^4c)$ (v) $(-480b^4c)$

4. The value of $\frac{1}{4}j^2k^2l^2 - \frac{1}{2}j^2k^2l^2 - \frac{1}{3}j^2k^2l^2 - \frac{3}{5}j^2k^2l^2$ is

   (i) $(-\frac{71}{60}j^2k^2l^2)$ (ii) $(-\frac{71}{58}j^2k^2l^2)$ (iii) $(-\frac{71}{62}j^2k^2l^2)$ (iv) $(-\frac{23}{20}j^2k^2l^2)$ (v) $(-\frac{73}{60}j^2k^2l^2)$

5. The value of $(-3w^2-6w+5)+(5w^2-9w+8)$ is

   (i) $(4w^2-15w+13)$ (ii) $(-15w+13)$ (iii) $(2w^2-15w+13)$ (iv) $(3w^2-15w+13)$ (v) $(w^2-15w+13)$

6. Which of the following terms can be added to $(-6h^2)$?

   (i) $5h$ (ii) (-7) (iii) $9h^4$ (iv) $3h^2$ (v) h^3

7. The value of $(-9p)+(-4p)+(-6p)+(-5p)$ is

   (i) $(-26p)$ (ii) $(-22p)$ (iii) $(-23p)$ (iv) $(-24p)$ (v) $(-25p)$

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

   (i) $\frac{1}{6}l^2m^2$ (ii) $\frac{3}{20}l^2m^2$ (iii) $\frac{3}{22}l^2m^2$ (iv) $\frac{1}{20}l^2m^2$ (v) $\frac{1}{4}l^2m^2$

9. The value of $\frac{1}{3}ij + \frac{2}{3}ij$ is

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

10. The value of $(-3fgh-4fh+6g)+(-2fg+8fh+3h)$ is

    (i) $(-3fgh-2fg+4fh+6g+3h)$ (ii) $(-3fgh-4fg+4fh+6g+3h)$ (iii) $(-2fgh-2fg+4fh+6g+3h)$

    (iv) $(-3fgh+fg+4fh+6g+3h)$ (v) $(-4fgh-2fg+4fh+6g+3h)$

11. The value of $3(-2g-1)$ is

    (i) $(-6g-3)$ (ii) $(-6g)$ (iii) $(-7g-3)$ (iv) $(-6g-6)$ (v) $(-5g-3)$

12. The value of $v^2-(-9v^2)-(-7v^2)$ is

(i) $14v^2$ (ii) $18v^2$ (iii) $17v^2$ (iv) $19v^2$ (v) $16v^2$

13. The value of $n\times n\times n$ is

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

14. The product of the terms $4,(-4o),2no,(-1),(-2)$ is

(i) $(-61no^2)$ (ii) $(-64no^2)$ (iii) $(-67no^2)$ (iv) $(-63no^2)$ (v) $(-65no^2)$

15. The expanded form of $(x+1)(x+5)(x+9)(x+6)$ is

(i) $(21x^3+149x^2+399x+270)$ (ii) $(3x^4+21x^3+149x^2+399x+270)$

(iii) $(2x^4+21x^3+149x^2+399x+270)$ (iv) $(x^4+21x^3+149x^2+399x+270)$

(v) $(-2x^4+21x^3+149x^2+399x+270)$

16. The value of $\frac{1}{4}f-\frac{1}{3}f$ is

(i) $(-\frac{1}{12}f)$ (ii) $(-\frac{1}{14}f)$ (iii) $\frac{1}{12}f$ (iv) $(-\frac{1}{10}f)$ (v) $(-\frac{1}{4}f)$

17. The value of $(-4w)(4w^2x^2y^2+3w^2y^2)$ is

(i) $(-15w^3x^2y^2-12w^3y^2)$ (ii) $(-16w^3x^2y^2-10w^3y^2)$ (iii) $(-17w^3x^2y^2-12w^3y^2)$

(iv) $(-16w^3x^2y^2-12w^3y^2)$ (v) $(-16w^3x^2y^2-14w^3y^2)$

18. The value of $(-6tu)-5tu-(-6tu)-7tu$ is

(i) $(-9tu)$ (ii) $(-12tu)$ (iii) $(-13tu)$ (iv) $(-14tu)$ (v) $(-11tu)$

19. The value of $(-4o^2p-5op^2-6p^2+4p)-(-8o^2p^2-8op^2-5p^2+3)$ is

(i) $(9o^2p^2-4o^2p+3op^2-p^2+4p-3)$ (ii) $(8o^2p^2-4o^2p+3op^2-p^2+4p-3)$

(iii) $(7o^2p^2-4o^2p+3op^2-p^2+4p-3)$ (iv) $(8o^2p^2-o^2p+3op^2-p^2+4p-3)$

(v) $(8o^2p^2-6o^2p+3op^2-p^2+4p-3)$

20. The value of $4j^5-(-2j^5)-(-5j^5)$ is

(i) $12j^5$ (ii) $11j^5$ (iii) $10j^5$ (iv) $13j^5$ (v) $8j^5$

21. The sum of the expressions $(-op+8p-3),(-4op+7o+p),(4o-4p-3),(-2op+p+2),(5o+2p+4)$ is

(i) $(-7op+18o+8p)$ (ii) $(-6op+16o+8p)$ (iii) $(-7op+13o+8p)$ (iv) $(-7op+16o+8p)$

(v) $(-8op+16o+8p)$

22. The sum of the expressions $(-2o-3),(3o-5),(5o+8),(7o-27),(19o+5)$ is

(i) $(32o-24)$ (ii) $(31o-22)$ (iii) $(32o-19)$ (iv) $(33o-22)$ (v) $(32o-22)$

23. The sum of the expressions $(-6p-9),(-p-2),(6p+10),(-5p+9),(-5p+9)$ is

(i) $(-11p+19)$ (ii) $(-10p+17)$ (iii) $(-11p+15)$ (iv) $(-11p+17)$ (v) $(-12p+17)$

24. Which of the following terms can be subtracted from $(-f^3)$?

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

25. The expanded form of $(3x-7)(2x+6)(3x-2)$ is

(i) $(16x^3-134x+84)$ (ii) $(21x^3-134x+84)$ (iii) $(17x^3-134x+84)$ (iv) $(19x^3-134x+84)$

(v) $(18x^3-134x+84)$

Assignment Key

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

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