EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Operations on Algebraic Expressions

Grade : ICSE Grade VI

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1. The value of $(-4k-9l)\times(2kl-3l)\times(5kl+2l)$ is

   (i) $(-40k^3l^2-90k^2l^3+44k^2l^2+99kl^3+24kl^2+54l^3)$ (ii) $(-39k^3l^2-90k^2l^3+44k^2l^2+99kl^3+24kl^2+54l^3)$

   (iii) $(-41k^3l^2-90k^2l^3+44k^2l^2+99kl^3+24kl^2+54l^3)$

   (iv) $(-40k^3l^2-88k^2l^3+44k^2l^2+99kl^3+24kl^2+54l^3)$ (v) $(-40k^3l^2-92k^2l^3+44k^2l^2+99kl^3+24kl^2+54l^3)$

2. The value of $(-8v^2-4v-3)+(8v^2-3v-4)$ is

   (i) $(-7v-7)$ (ii) $(-6v-7)$ (iii) $(-9v-7)$ (iv) $(-8v-7)$ (v) $(-5v-7)$

3. The value of $\frac{2}{5}g^2h^2i^2-\frac{2}{3}g^2h^2i^2$ is

   (i) $(-\frac{2}{5}g^2h^2i^2)$ (ii) $(-\frac{2}{15}g^2h^2i^2)$ (iii) $(-\frac{4}{13}g^2h^2i^2)$ (iv) $(-\frac{4}{15}g^2h^2i^2)$ (v) $(-\frac{4}{17}g^2h^2i^2)$

4. Which of the following terms is a like term of 8 ?

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

5. The value of $3c\times c^2\times 3c^2$ is

   (i) $9c^5$ (ii) $8c^5$ (iii) $10c^5$ (iv) $11c^5$ (v) $6c^5$

6. The value of $(6ab+6a-3b)-(5abc+9c-2)$ is

   (i) $(-5abc+8ab+6a-3b-9c+2)$ (ii) $(-5abc+6ab+6a-3b-9c+2)$ (iii) $(-4abc+6ab+6a-3b-9c+2)$

   (iv) $(-5abc+3ab+6a-3b-9c+2)$ (v) $(-6abc+6ab+6a-3b-9c+2)$

7. Which of the following terms is a like term of $(-7u^3)$?

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

8. The value of $(-2wx)-2wx-6wx-2wx$ is

   (i) $(-10wx)$ (ii) $(-12wx)$ (iii) $(-14wx)$ (iv) $(-13wx)$ (v) $(-11wx)$

9. The value of $\frac{2}{3}r+\frac{1}{4}r+\frac{1}{3}r+\frac{3}{4}r$ is

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

10. The value of $(5d^2e^2-7d^2+5de+5e)-(-d^2e^2+4de^2-13de-d)$ is

(i) $(5d^2e^2-7d^2-4de^2+18de+d+5e)$ (ii) $(7d^2e^2-7d^2-4de^2+18de+d+5e)$

(iii) $(6d^2e^2-9d^2-4de^2+18de+d+5e)$ (iv) $(6d^2e^2-7d^2-4de^2+18de+d+5e)$

(v) $(6d^2e^2-4d^2-4de^2+18de+d+5e)$

11. The value of $\frac{1}{2}x^4+\frac{4}{5}x^4+\frac{1}{2}x^4+\frac{1}{4}x^4$ is

(i) $\frac{43}{20}x^4$ (ii) $\frac{45}{22}x^4$ (iii) $\frac{37}{18}x^4$ (iv) $\frac{39}{20}x^4$ (v) $\frac{41}{20}x^4$

12. The value of $(6i^2j^2k^2+j^2k^2-8j^2k)-(6ij^2k^2-7ijk-7ij)-(-7ij^2k^2+8ijk^2+2j^2)$ is

(i) $(6i^2j^2k^2+ij^2k^2-8ijk^2+7ijk+7ij+j^2k^2-8j^2k-2j^2)$

(ii) $(6i^2j^2k^2-2ij^2k^2-8ijk^2+7ijk+7ij+j^2k^2-8j^2k-2j^2)$

(iii) $(6i^2j^2k^2+3ij^2k^2-8ijk^2+7ijk+7ij+j^2k^2-8j^2k-2j^2)$

(iv) $(7i^2j^2k^2+ij^2k^2-8ijk^2+7ijk+7ij+j^2k^2-8j^2k-2j^2)$

(v) $(5i^2j^2k^2+ij^2k^2-8ijk^2+7ijk+7ij+j^2k^2-8j^2k-2j^2)$

13. The value of $6cd-(-9cd)$ is

(i) $12cd$ (ii) $17cd$ (iii) $15cd$ (iv) $14cd$ (v) $16cd$

14. Which of the following terms can be added to $6mno$?

(i) $(-6n)$ (ii) (-6) (iii) $8mo$ (iv) $(-6mn)$ (v) $(-4mno)$

15. The value of $\frac{1}{3}(\frac{1}{2}v^2w+\frac{1}{5}w^2)$ is

(i) $(\frac{1}{4}v^2w+\frac{1}{15}w^2)$ (ii) $(\frac{1}{6}v^2w-\frac{1}{15}w^2)$ (iii) $(\frac{1}{8}v^2w+\frac{1}{15}w^2)$ (iv) $(\frac{1}{6}v^2w+\frac{1}{15}w^2)$ (v) $(\frac{1}{6}v^2w+\frac{1}{5}w^2)$

16. The value of $(4l^2-3lm^2)\times(8l^2m^2+9lm)$ is

(i) $(33l^4m^2-24l^3m^4+36l^3m-27l^2m^3)$ (ii) $(31l^4m^2-24l^3m^4+36l^3m-27l^2m^3)$

(iii) $(32l^4m^2-24l^3m^4+36l^3m-27l^2m^3)$ (iv) $(32l^4m^2-21l^3m^4+36l^3m-27l^2m^3)$

(v) $(32l^4m^2-27l^3m^4+36l^3m-27l^2m^3)$

17. Which of the following terms can be added to $6abc$?

(i) a^2b^2c (ii) $3a^2$ (iii) $7abc$ (iv) (-7) (v) $(-6b)$

18. The value of $jkl+jkl$ is

(i) $2jkl$ (ii) $3jkl$ (iii) $5jkl$ (iv) $(-jkl)$ (v) jkl

19. The value of $8t \times (-4u) \times (-9) \times 5tu$ is

(i) $1440t^2u^2$ (ii) $1442t^2u^2$ (iii) $1437t^2u^2$ (iv) $1439t^2u^2$ (v) $1441t^2u^2$

20. Which of the following terms can be subtracted from $(-7o^2p^2n)$?

(i) $(-5no^2p^2)$ (ii) $7n^2op$ (iii) $5nop$ (iv) $(-8nop^2)$ (v) $9n^2o^2p^2$

21. The value of $\frac{1}{3}ef \times \frac{1}{4}e$ is

(i) $\frac{1}{10}e^2f$ (ii) $(-\frac{1}{12}e^2f)$ (iii) $\frac{1}{14}e^2f$ (iv) $\frac{1}{4}e^2f$ (v) $\frac{1}{12}e^2f$

22. The value of $(-5n) + (-9n) + (-9n) + n$ is

(i) $(-21n)$ (ii) $(-19n)$ (iii) $(-23n)$ (iv) $(-25n)$ (v) $(-22n)$

23. The value of $3v(4v^2wx^2 - 4w^2x^2 - w^2x)$ is

(i) $(11v^3wx^2 - 12vw^2x^2 - 3vw^2x)$ (ii) $(12v^3wx^2 - 12vw^2x^2 - 3vw^2x)$ (iii) $(12v^3wx^2 - 10vw^2x^2 - 3vw^2x)$

(iv) $(12v^3wx^2 - 15vw^2x^2 - 3vw^2x)$ (v) $(13v^3wx^2 - 12vw^2x^2 - 3vw^2x)$

24. Which of the following is a like term of $2cdb^2$?

(i) $(-3b^2cd)$ (ii) $(-bc^2d)$ (iii) $9bcd^2$ (iv) $6b^2cd^2$ (v) $5b^2c^2d$

25. The expanded form of $(3x-7)(3x-4)$ is

(i) $(9x^2-33x+28)$ (ii) $(6x^2-33x+28)$ (iii) $(8x^2-33x+28)$ (iv) $(10x^2-33x+28)$

(v) $(12x^2-33x+28)$

Assignment Key

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

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