EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Operations on Algebraic Expressions

Grade : ICSE Grade VI

1. The value of $\frac{4}{5}y - \frac{3}{4}y$ is

   (i) $\frac{3}{20}y$ (ii) $(-\frac{1}{20}y)$ (iii) $\frac{1}{22}y$ (iv) $\frac{1}{20}y$ (v) $\frac{1}{18}y$

2. The value of $(4w^3 - 5w^2 + 4w) + (4w^5 + 3w^2 + 2w)$ is

   (i) $(3w^5 + 4w^3 - 2w^2 + 6w)$ (ii) $(5w^5 + 4w^3 - 2w^2 + 6w)$ (iii) $(6w^5 + 4w^3 - 2w^2 + 6w)$

   (iv) $(4w^5 + 4w^3 - 2w^2 + 6w)$ (v) $(2w^5 + 4w^3 - 2w^2 + 6w)$

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

   (i) $(-\frac{27}{20}xy)$ (ii) $(-\frac{29}{22}xy)$ (iii) $(-\frac{29}{18}xy)$ (iv) $(-\frac{29}{20}xy)$ (v) $(-\frac{31}{20}xy)$

4. The value of $(-3kl^2m^2 - kl^2m + 2kl^2) - (-3k^2l + 5l^2m - 3m^2) - (3k^2l^2m + 5k^2l^2 - 5l^2m)$ is

   (i) $(-4k^2l^2m - 5k^2l^2 + 3k^2l - 3kl^2m^2 - kl^2m + 2kl^2 + 3m^2)$

   (ii) $(-3k^2l^2m - 8k^2l^2 + 3k^2l - 3kl^2m^2 - kl^2m + 2kl^2 + 3m^2)$

   (iii) $(-3k^2l^2m - 5k^2l^2 + 3k^2l - 3kl^2m^2 - kl^2m + 2kl^2 + 3m^2)$

   (iv) $(-2k^2l^2m - 5k^2l^2 + 3k^2l - 3kl^2m^2 - kl^2m + 2kl^2 + 3m^2)$

   (v) $(-3k^2l^2m - 3k^2l^2 + 3k^2l - 3kl^2m^2 - kl^2m + 2kl^2 + 3m^2)$

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

   (i) $(11b^5 + 2b^4 - 18b^3 + 3b^2 - 10b - 12)$ (ii) $(9b^5 + 2b^4 - 18b^3 + 3b^2 - 10b - 12)$

   (iii) $(5b^5 + 2b^4 - 18b^3 + 3b^2 - 10b - 12)$ (iv) $(7b^5 + 2b^4 - 18b^3 + 3b^2 - 10b - 12)$

   (v) $(8b^5 + 2b^4 - 18b^3 + 3b^2 - 10b - 12)$

6. The value of $(-2n) \times (-1) \times (-4n) \times (-1)$ is

   (i) $6n^2$ (ii) $9n^2$ (iii) $7n^2$ (iv) $11n^2$ (v) $8n^2$

7. Which of the following terms can be added to $(-4poq^2)$?

   (i) $(-2o^2pq)$ (ii) $8o^2p^2q^2$ (iii) $5opq^2$ (iv) $(-7op^2q)$ (v) $(-6op^2q^2)$

8. The value of $(-3u^3v^3w^3)+6u^3v^3w^3+(-4u^3v^3w^3)+(-6u^3v^3w^3)$ is

(i) $(-8u^3v^3w^3)$ (ii) $(-6u^3v^3w^3)$ (iii) $(-5u^3v^3w^3)$ (iv) $(-10u^3v^3w^3)$ (v) $(-7u^3v^3w^3)$

9. Which of the following terms can be subtracted from $(-4kl^2m^2)$?

(i) $2km^2$ (ii) $(-5kl^2m)$ (iii) $4kl^2m^2$ (iv) $4k^2lm^2$ (v) 9

10. Which of the following terms can be subtracted from $7cdb^2$?

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

11. The value of $\frac{1}{3}no \times \frac{1}{3}no$ is

(i) $\frac{1}{3}n^2o^2$ (ii) $(-\frac{1}{9}n^2o^2)$ (iii) $\frac{1}{9}n^2o^2$ (iv) $\frac{1}{7}n^2o^2$ (v) $\frac{1}{11}n^2o^2$

12. The value of $\frac{1}{2}s^2t^2u^2-\frac{1}{2}s^2t^2u^2$ is

(i) (-3) (ii) (-1) (iii) 2 (iv) 0 (v) 1

13. The value of $\frac{1}{3}y^5-\frac{1}{2}y^5-\frac{1}{2}y^5$ is

(i) $(-\frac{2}{3}y^5)$ (ii) 0 (iii) $(-\frac{4}{3}y^5)$ (iv) $(-\frac{2}{5}y^5)$ (v) $(-2y^5)$

14. The value of $\frac{1}{3}y^2+\frac{3}{4}y^2+\frac{1}{5}y^2$ is

(i) $\frac{75}{58}y^2$ (ii) $\frac{79}{60}y^2$ (iii) $\frac{77}{60}y^2$ (iv) $\frac{79}{62}y^2$ (v) $\frac{5}{4}y^2$

15. The value of $2de+6de$ is

(i) $7de$ (ii) $8de$ (iii) $5de$ (iv) $11de$ (v) $9de$

16. The value of $(-3q^2r^2s^2)-(-2q^2r^2s^2)$ is

(i) $q^2r^2s^2$ (ii) $(-2q^2r^2s^2)$ (iii) $(-q^2r^2s^2)$ (iv) 0 (v) $(-3q^2r^2s^2)$

17. The value of $(-8g-4)\times(-9g-8)$ is

(i) $(69g^2+100g+32)$ (ii) $(73g^2+100g+32)$ (iii) $(71g^2+100g+32)$ (iv) $(74g^2+100g+32)$

(v) $(72g^2+100g+32)$

18. Which of the following terms is a like term of 2 ?

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

19. The product of the terms $(-2), (-1), 2, (-5), 2$ is

(i) (-43) (ii) (-41) (iii) (-40) (iv) (-39) (v) (-38)

20. The product of the terms $(-fgh), 5fh, 5, 4, 4$ is

(i) $(-400f^2gh^2)$ (ii) $(-398f^2gh^2)$ (iii) $(-399f^2gh^2)$ (iv) $(-401f^2gh^2)$ (v) $(-403f^2gh^2)$

21. The value of $5p^2q^2r^2 - (-9p^2q^2r^2) - (-2p^2q^2r^2) - (-3p^2q^2r^2)$ is

(i) $21p^2q^2r^2$ (ii) $17p^2q^2r^2$ (iii) $20p^2q^2r^2$ (iv) $19p^2q^2r^2$ (v) $18p^2q^2r^2$

22. The value of $(-5r) \times 7r$ is

(i) $(-35r^2)$ (ii) $(-32r^2)$ (iii) $(-36r^2)$ (iv) $(-34r^2)$ (v) $(-38r^2)$

23. The sum of the expressions $(4u+6), (-7u+13), (9u-3), (9u-5), (-7u-7)$ is

(i) $(7u+4)$ (ii) $(9u+4)$ (iii) $(8u+6)$ (iv) $(8u+2)$ (v) $(8u+4)$

24. The value of $(-3d) \times (-9d) \times 2e \times (-3e)$ is

(i) $(-164d^2e^2)$ (ii) $(-161d^2e^2)$ (iii) $(-162d^2e^2)$ (iv) $(-160d^2e^2)$ (v) $(-163d^2e^2)$

25. The value of $\frac{1}{2}w^2 \times \frac{1}{2}u^2v$ is

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

Assignment Key

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