EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Operations on Algebraic Expressions

Grade : ICSE Grade VI

1. The value of $y \times y \times y$ is

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

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

   (i) $(6y^4+2y^3+5y^2+5y+17)$ (ii) $(3y^4+2y^3+5y^2+5y+17)$ (iii) $(y^4+2y^3+5y^2+5y+17)$

   (iv) $(2y^4+2y^3+5y^2+5y+17)$ (v) $(4y^4+2y^3+5y^2+5y+17)$

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

   (i) $\frac{1}{10}z$ (ii) $\frac{3}{10}z$ (iii) $\frac{3}{8}z$ (iv) $\frac{1}{2}z$ (v) $\frac{1}{4}z$

4. The value of $(-7e-6)+(-7e-4)$ is

   (i) $(-16e-10)$ (ii) $(-15e-10)$ (iii) $(-12e-10)$ (iv) $(-13e-10)$ (v) $(-14e-10)$

5. Which of the following terms can be added to $(-8df)$?

   (i) (-1) (ii) $4f$ (iii) $6d$ (iv) df (v) $(-8ef)$

6. The sum of the expressions $(-2c-4d),(-2d+6),(-3d-7),(cd+d),(cd-4c)$ is

   (i) $(cd-6c-8d-1)$ (ii) $(2cd-4c-8d-1)$ (iii) $(2cd-6c-8d-1)$ (iv) $(2cd-9c-8d-1)$

   (v) $(3cd-6c-8d-1)$

7. The sum of the terms $3k,(-5jkl),4jl,4jl,2j$ is

   (i) $(-6jkl+8jl+2j+3k)$ (ii) $(-4jkl+8jl+2j+3k)$ (iii) $(-5jkl+5jl+2j+3k)$ (iv) $(-5jkl+8jl+2j+3k)$

   (v) $(-5jkl+11jl+2j+3k)$

8. Which of the following is a like term of $6k$?

   (i) $(-4jk)$ (ii) $2ik$ (iii) $(-2k)$ (iv) 5 (v) $(-3j)$

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

   (i) $\frac{17}{20}s^2$ (ii) $\frac{19}{22}s^2$ (iii) $\frac{19}{18}s^2$ (iv) $\frac{19}{20}s^2$ (v) $\frac{21}{20}s^2$

10. The value of $\frac{4}{5}(\frac{4}{5}q^2r+\frac{3}{4}r)$ is

    (i) $(\frac{16}{23}q^2r+\frac{3}{5}r)$ (ii) $(\frac{16}{27}q^2r+\frac{3}{5}r)$ (iii) $(\frac{16}{25}q^2r+\frac{1}{5}r)$ (iv) $(\frac{16}{25}q^2r+\frac{3}{5}r)$ (v) $(\frac{16}{25}q^2r+r)$

11. The value of $\frac{1}{3}t^3 - \frac{3}{5}t^3$ is

(i) $(-\frac{4}{17}t^3)$ (ii) $(-\frac{4}{15}t^3)$ (iii) $(-\frac{2}{5}t^3)$ (iv) $(-\frac{2}{15}t^3)$ (v) $(-\frac{4}{13}t^3)$

12. The value of $3a\,(-a^2b - ab^2)$ is

(i) $(-3a^3b - 3a^2b^2)$ (ii) $(-2a^3b - 3a^2b^2)$ (iii) $(-3a^3b - 5a^2b^2)$ (iv) $(-3a^3b)$ (v) $(-4a^3b - 3a^2b^2)$

13. Which of the following terms is a like term of $7b^4$?

(i) $3b$ (ii) $2b^3$ (iii) $7b^2$ (iv) $(-2b^4)$ (v) (-1)

14. The value of $(-6vwx) + 7vwx$ is

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

15. Which of the following terms can be added to $8b$?

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

16. The value of $(-6c) \times 9c$ is

(i) $(-54c^2)$ (ii) $(-53c^2)$ (iii) $(-56c^2)$ (iv) $(-55c^2)$ (v) $(-51c^2)$

17. The value of $5i^2j^2 \times (-7ijk^2)$ is

(i) $(-33i^3j^3k^2)$ (ii) $(-34i^3j^3k^2)$ (iii) $(-36i^3j^3k^2)$ (iv) $(-37i^3j^3k^2)$ (v) $(-35i^3j^3k^2)$

18. Which of the following terms can be subtracted from d^2ec ?

(i) $(-3c^2de^2)$ (ii) $(-3c^2d^2e)$ (iii) $(-2c^2d^2e^2)$ (iv) $7cde$ (v) $4cd^2e$

19. The value of $6q^4 + (-2q^4) + 5q^4 + (-4q^4)$ is

(i) $6q^4$ (ii) $5q^4$ (iii) $4q^4$ (iv) $8q^4$ (v) $2q^4$

20. The value of $(-m) + (-m)$ is

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

21. The value of $(-7hij + 7i - 1) - (-4hi - 7ij + 6i)$ is

(i) $(-7hij + 6hi + 7ij + i - 1)$ (ii) $(-8hij + 4hi + 7ij + i - 1)$ (iii) $(-7hij + 4hi + 7ij + i - 1)$

(iv) $(-7hij + 2hi + 7ij + i - 1)$ (v) $(-6hij + 4hi + 7ij + i - 1)$

22. The value of $\frac{1}{2}z^5 - \frac{1}{2}z^5 - \frac{1}{4}z^5$ is

(i) $(-\frac{1}{4}z^5)$ (ii) $(-\frac{3}{4}z^5)$ (iii) $(-\frac{1}{2}z^5)$ (iv) $(-\frac{1}{6}z^5)$ (v) $\frac{1}{4}z^5$

23. Which of the following terms can be subtracted from $(-r^2sq)$?

(i) $(-4qrs^2)$ (ii) $(-3q^2r^2s^2)$ (iii) $7q^2rs^2$ (iv) $(-3q^2r^2s)$ (v) $3qr^2s$

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

(i) $9k^2l^2m^2$ (ii) $10k^2l^2m^2$ (iii) $8k^2l^2m^2$ (iv) $7k^2l^2m^2$ (v) $5k^2l^2m^2$

25. The value of $\frac{3}{4}(\frac{4}{5}uv+\frac{1}{2}v)$ is

(i) $(\frac{3}{5}uv+\frac{3}{8}v)$ (ii) $(uv+\frac{3}{8}v)$ (iii) $(\frac{3}{5}uv+\frac{1}{8}v)$ (iv) $(\frac{3}{5}uv+\frac{5}{8}v)$ (v) $(\frac{3}{7}uv+\frac{3}{8}v)$

Assignment Key

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