EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Fundamental Concepts

Grade : ICSE Grade VIII

1. The sum of the terms $2, 3, (-9), 7/, 4/$ is

   (i) $(10/-4)$ (ii) $(11/-4)$ (iii) $(12/-4)$ (iv) $(11/-2)$ (v) $(11/-7)$

2. The value of the polynomial $(5t^2v^2-6tv-v)$ at $t=(-1), u=(-1), v=(-5)$ is

   (i) 99 (ii) 100 (iii) 101 (iv) 98 (v) 102

3. The value of $(-8t-8)+(2t-1)$ is

   (i) $(-4t-9)$ (ii) $(-7t-9)$ (iii) $(-5t-9)$ (iv) $(-6t-9)$ (v) $(-8t-9)$

4. The value of the polynomial $(-m^2no+9o)$ at $m=0, n=0, o=(-4)$ is

   (i) -39 (ii) -37 (iii) -36 (iv) -35 (v) -34

5. The sum of the expressions $(4/+8), (2/-4), (/+4), (2/-4), (/+6)$ is

   (i) $(10/+8)$ (ii) $(10/+10)$ (iii) $(10/+12)$ (iv) $(11/+10)$ (v) $(9/+10)$

6. Which of the following terms can be added to $(-4m/n^2)$?

   (i) $(-8l^2m^2n)$ (ii) $(-3l^2m^2n^2)$ (iii) $(-9l^2mn)$ (iv) $5lm^2n$ (v) $7lmn^2$

7. The value of $2(q^2+2r)$ is

   (i) $(2q^2+4r)$ (ii) $(2q^2+7r)$ (iii) (q^2+4r) (iv) $(2q^2+2r)$ (v) $(3q^2+4r)$

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

   (i) $(-\frac{29}{20}fg)$ (ii) $(-\frac{31}{20}fg)$ (iii) $(-\frac{33}{20}fg)$ (iv) $(-\frac{31}{18}fg)$ (v) $(-\frac{31}{22}fg)$

9. The value of $\frac{1}{2}\times\frac{3}{4}\times\frac{1}{3}c\times\frac{2}{3}c$ is

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

10. Which of the following algebraic expressions is a constant polynomial?

    (i) $(3k^3+k^2+5k+9)$ (ii) $(7k^2-9k-5)$ (iii) $(2k^5+2k^4+9k^3-8k^2+4)$ (iv) $(-7k-4)$ (v) 5

11. Find the remainder when $(x^2+8x+15)$ is divided by $(x-2)$

    (i) 32 (ii) 38 (iii) 35 (iv) 34 (v) 36

12. The value of $\frac{4}{5}(\frac{2}{3}ef+\frac{1}{2}e)$ is

(i) $\frac{8}{15}ef$ (ii) $(\frac{8}{15}ef+\frac{2}{5}e)$ (iii) $(\frac{8}{13}ef+\frac{2}{5}e)$ (iv) $(\frac{8}{15}ef+\frac{4}{5}e)$ (v) $(\frac{8}{17}ef+\frac{2}{5}e)$

13. The degree of the polynomial $(2r+4)$ is

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

14. The remainder when $(4g^3+7g^2-6g-6)$ is divided by $(g-8)$ is

(i) 2442 (ii) 2441 (iii) 2439 (iv) 2445 (v) 2443

15. Which of the following algebraic expressions is a quadratic polynomial?

(i) 7 (ii) $(7y^5-7y^3-6y^2+3y-6)$ (iii) $(-7y-8)$ (iv) $(7y^3-3y^2+4y-6)$ (v) $(-9y^2-8y+8)$

16. Which of the following is a like term of u^2v^2 ?

(i) $5v^2$ (ii) u (iii) $(-8u^2v^2)$ (iv) $3uv$ (v) $(-12v)$

17. The value of $\frac{1}{2}w\times\frac{1}{2}\times\frac{1}{3}w$ is

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

18. The value of $(-5b^2)-6b^2-(-4b^2)$ is

(i) $(-7b^2)$ (ii) $(-6b^2)$ (iii) $(-10b^2)$ (iv) $(-8b^2)$ (v) $(-4b^2)$

19. Which of the following terms can be added to $9utv^2$?

(i) $(-2tu^2v^2)$ (ii) $(-2t^2u^2v^2)$ (iii) $3tuv^2$ (iv) $3t^2u^2v$ (v) $(-tuv)$

20. The coefficient of term op^2 in polynomial $(9nop+7o^2p^2+3o^2+5op^2+3)$ is

(i) 3 (ii) 4 (iii) 5 (iv) 8 (v) 6

21. The quotient when $(-2d^3-8d^2+2)$ is divided by $(d+7)$ is

(i) $(d^2+6d-42)$ (ii) $(-3d^2+6d-42)$ (iii) $(-2d^2+6d-42)$ (iv) $(-d^2+6d-42)$ (v) $(-5d^2+6d-42)$

22. The value of $\frac{1}{3}b^2c^2+\frac{1}{5}b^2c^2+\frac{1}{3}b^2c^2+\frac{1}{3}b^2c^2$ is

(i) $\frac{6}{5}b^2c^2$ (ii) $2b^2c^2$ (iii) $\frac{4}{5}b^2c^2$ (iv) $\frac{6}{7}b^2c^2$ (v) $\frac{8}{5}b^2c^2$

23. Which of the following terms can be subtracted from $(-6u)$?

(i) $(-5u)$ (ii) $(-5tu^2v^2)$ (iii) $4v$ (iv) $9t^2u^2v$ (v) $6t^2v$

24. The value of $(-6k^5) - 6k^5 - (-5k^5)$ is

(i) $(-7k^5)$ (ii) $(-8k^5)$ (iii) $(-6k^5)$ (iv) $(-4k^5)$ (v) $(-9k^5)$

25. The degree of the polynomial $(-9u^2 + 8u + 4)$ is

(i) 2 (ii) 3 (iii) 1 (iv) (-1) (v) 4

Assignment Key

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