EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Fundamental Concepts

Grade : ICSE Grade VIII

1. The value of $(6q-7r-4)+(-4pqr+7pr-1)$ is

   (i) $(-5pqr+7pr+6q-7r-5)$ (ii) $(-4pqr+9pr+6q-7r-5)$ (iii) $(-4pqr+5pr+6q-7r-5)$

   (iv) $(-4pqr+7pr+6q-7r-5)$ (v) $(-3pqr+7pr+6q-7r-5)$

2. Which of the following terms can be subtracted from (-1) ?

   (i) $(-8m^4)$ (ii) 6 (iii) $(-8m^2)$ (iv) $(-9m)$ (v) $(-m^3)$

3. The remainder when $3e^2$ is divided by $(e-2)$ is

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

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

   (i) $\frac{1}{4}j^3$ (ii) $(-\frac{1}{12}j^3)$ (iii) $\frac{1}{10}j^3$ (iv) $\frac{1}{14}j^3$ (v) $\frac{1}{12}j^3$

5. Which of the following algebraic expressions is a trinomial?

   (i) $o^2p^3q^2$ (ii) $(2opq^3+3o-9p^3q)$ (iii) $(-2o^2p^2+2p^3q^3)$ (iv) $(-o^3pq^2-o^3q+2op^2+3q^3)$

   (v) $(3o^3p^2q^2-6o^2p-9op^3q^3-4pq^3)$

6. Which of the following are not polynomials?

   a) $144x^2$

   b) $x+\frac{1}{x}$

   c) $\frac{(3x+4y)}{(6x-6y)}$

   d) $(3x+4y)$

   e) $(18x^2+6xy-24y^2)$

   (i) {d,c} (ii) {e,a,b} (iii) {b,c} (iv) {a,b} (v) {d,c,b}

7. Which of the following algebraic expressions is a trinomial?

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

8. Which of the following terms can be subtracted from $(-8ij^2h^2)$?

   (i) $(-4hij)$ (ii) $(-5h^2i^2j)$ (iii) $(-2hij^2)$ (iv) $(-7h^2ij^2)$ (v) h^2ij

9. The value of $4 \times (-6d)$ is

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

10. The value of $\frac{2}{3}ij(\frac{1}{4}j^2+\frac{1}{3}jk+\frac{4}{5})$ is

(i) $(\frac{1}{6}ij^3+\frac{4}{9}ij^2k+\frac{8}{15}ij)$ (ii) $(\frac{1}{8}ij^3+\frac{2}{9}ij^2k+\frac{8}{15}ij)$ (iii) $(\frac{1}{6}ij^3+\frac{2}{9}ij^2k+\frac{8}{15}ij)$ (iv) $(\frac{1}{6}ij^3+\frac{8}{15}ij)$

(v) $(\frac{1}{4}ij^3+\frac{2}{9}ij^2k+\frac{8}{15}ij)$

11. Which of the following terms can be subtracted from $(-9v^2w^2u)$?

(i) $6u^2v^2w$ (ii) $4uv^2w^2$ (iii) $(-4uv^2w)$ (iv) $(-2uvw^2)$ (v) $(-6uvw)$

12. The degree of the polynomial $(-3y-3)$ is

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

13. The value of $h\times(-7g)\times(-3g)\times(-8fh)$ is

(i) $(-170fg^2h^2)$ (ii) $(-167fg^2h^2)$ (iii) $(-166fg^2h^2)$ (iv) $(-169fg^2h^2)$ (v) $(-168fg^2h^2)$

14. The value of $(-6qr)-qr$ is

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

15. The value of $\frac{1}{5}efg+\frac{3}{4}efg$ is

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

16. The value of $(-10b+2c+6)+(-9bc+6b+15c)$ is

(i) $(-9bc-4b+17c+6)$ (ii) $(-8bc-4b+17c+6)$ (iii) $(-9bc-6b+17c+6)$ (iv) $(-10bc-4b+17c+6)$

(v) $(-9bc-b+17c+6)$

17. The value of $(-4m^5)-m^5-2m^5$ is

(i) $(-6m^5)$ (ii) $(-8m^5)$ (iii) $(-10m^5)$ (iv) $(-5m^5)$ (v) $(-7m^5)$

18. The coefficient of term $c^2d^2e^2$ in polynomial $(-6c^2d^2e^2-8c^2e^2-5cde+d+8)$ is

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

19. The value of $(-vx)(-2v^2w^2x+5vwx)$ is

(i) $(2v^3w^2x^2-5v^2wx^2)$ (ii) $(3v^3w^2x^2-5v^2wx^2)$ (iii) $(v^3w^2x^2-5v^2wx^2)$ (iv) $(2v^3w^2x^2-2v^2wx^2)$

(v) $(2v^3w^2x^2-7v^2wx^2)$

20. The quotient when $(-3m^4+6m^3-4m^2-7m-8)$ is divided by $(m^2-8m+15)$ is

(i) $(-3m^2-18m-103)$ (ii) $(-2m^2-18m-103)$ (iii) $(-m^2-18m-103)$ (iv) $(-5m^2-18m-103)$

(v) $(-4m^2-18m-103)$

21. Which of the following is a like term of $(-2tv)$?

(i) $(-3tuv)$ (ii) $6u$ (iii) $(-3tu)$ (iv) $4t$ (v) $(-4tv)$

22. The sum of the terms $(-2h), (-8i), 9, 4h, (-4j)$ is

(i) $(2h-8i-4j+9)$ (ii) $(3h-8i-4j+9)$ (iii) $(2h-11i-4j+9)$ (iv) $(h-8i-4j+9)$ (v) $(2h-6i-4j+9)$

23. The value of $(-6v^2)-(-3v^2)-5v^2$ is

(i) $(-5v^2)$ (ii) $(-10v^2)$ (iii) $(-9v^2)$ (iv) $(-8v^2)$ (v) $(-7v^2)$

24. The coefficient of term n in polynomial $(6no+7n+8o+5)$ is

(i) 7 (ii) 6 (iii) 8 (iv) 10 (v) 4

25. The value of $(-3g^2h^2)+g^2h^2+(-g^2h^2)+6g^2h^2$ is

(i) $4g^2h^2$ (ii) $3g^2h^2$ (iii) $2g^2h^2$ (iv) $6g^2h^2$ (v) g^2h^2

Assignment Key

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