EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Algebraic Expressions

Grade : ICSE Grade VII

1. Which of the following is a like term of $3m^2$?

   (i) $(-7mn^2o)$ (ii) $(-4no)$ (iii) $(-9m^2)$ (iv) $(-7o)$ (v) $2mno^2$

2. The value of $(-2g+4)\times(8g^2-2g)\times(-2g^2-3)$ is

   (i) $(32g^5-72g^4+64g^3-108g^2+24g)$ (ii) $(30g^5-72g^4+64g^3-108g^2+24g)$

   (iii) $(33g^5-72g^4+64g^3-108g^2+24g)$ (iv) $(31g^5-72g^4+64g^3-108g^2+24g)$

   (v) $(35g^5-72g^4+64g^3-108g^2+24g)$

3. The coefficient of term q in polynomial $(7q-5)$ is

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

4. Which of the following is a factor of $(10x^3+yz^2)$?

   (i) no factors (ii) $10y$ (iii) $10x^3$ (iv) yz^2 (v) $10x^2z^2$

5. The value of $(4cd-7c-1)-(6c+8d-1)$ is

   (i) $(4cd-13c-8d)$ (ii) $(4cd-16c-8d)$ (iii) $(3cd-13c-8d)$ (iv) $(4cd-10c-8d)$ (v) $(5cd-13c-8d)$

6. The value of $(-7j^2-7j+6)\times(-2j^2-3j+3)$ is

   (i) $(14j^4+35j^3-12j^2-39j+18)$ (ii) $(16j^4+35j^3-12j^2-39j+18)$ (iii) $(13j^4+35j^3-12j^2-39j+18)$

   (iv) $(15j^4+35j^3-12j^2-39j+18)$ (v) $(12j^4+35j^3-12j^2-39j+18)$

7. The value of $3v^2\times(-v^2)\times v$ is

   (i) $(-3v^5)$ (ii) $(-2v^5)$ (iii) $(-5v^5)$ (iv) 0 (v) $(-4v^5)$

8. Which of the following algebraic expressions is a monomial?

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

   (v) $(-7s^4+9s^3+5s^2-8s+4)$

9. Which of the following are polynomials?

a) x^2

b) $\frac{(x+y)}{(x-y)}$

c) $(x+y)$

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

e) $x^2+\frac{1}{x^2}$

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

10. The value of $(2a-2)+(-6a+5)$ is

(i) $(-6a+3)$ (ii) $(-3a+3)$ (iii) $(-2a+3)$ (iv) $(-4a+3)$ (v) $(-5a+3)$

11. The remainder when $(-n)$ is divided by (-9) is

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

12. The value of $2b-(-b)$ is

(i) $6b$ (ii) $2b$ (iii) $4b$ (iv) b (v) $3b$

13. Which of the following terms is a like term of $(-2s^4)$?

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

14. The remainder when $(-9r+6)$ is divided by $(r-9)$ is

(i) (-74) (ii) (-73) (iii) (-78) (iv) (-75) (v) (-76)

15. The degree of the polynomial $(w^5+9w^4-5w^3+8w-7)$ is

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

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

(i) $(-\frac{3}{4}i^5)$ (ii) $(-\frac{17}{20}i^5)$ (iii) $(-\frac{19}{20}i^5)$ (iv) $(-\frac{17}{18}i^5)$ (v) $(-\frac{17}{22}i^5)$

17. $(-18x^5+45x^4-4x^3-39x^2+24x-4)$ divided by $(-18x^3+27x^2-13x+2)=$

(i) (x^2-x+2) (ii) (x^2-2x-2) (iii) (x^2+x-2) (iv) (x^2-x-2) (v) (x^2-2)

18. The value of $2pr\times 9q\times(-5q)\times(-2)$ is

(i) $179pq^2r$ (ii) $183pq^2r$ (iii) $181pq^2r$ (iv) $180pq^2r$ (v) $178pq^2r$

19. The value of $\frac{1}{4}(\frac{2}{3}c^2+\frac{3}{4}c)$ is

(i) $(\frac{1}{6}c^2+\frac{1}{16}c)$ (ii) $(\frac{1}{6}c^2+\frac{5}{16}c)$ (iii) $(\frac{1}{8}c^2+\frac{3}{16}c)$ (iv) $(\frac{1}{4}c^2+\frac{3}{16}c)$ (v) $(\frac{1}{6}c^2+\frac{3}{16}c)$

20. The coefficient of term f^3g^2h in polynomial $(8f^3g^2h-6f^3gh-8f^3g-2fg^3h^3-7fg^2-5fh-3g^3h^3)$ is

(i) 5 (ii) 10 (iii) 8 (iv) 7 (v) 9

21. The value of $\frac{3}{5}s^2t^2+\frac{1}{2}s^2t^2+\frac{2}{3}s^2t^2+\frac{1}{2}s^2t^2$ is

(i) $\frac{30}{13}s^2t^2$ (ii) $\frac{32}{15}s^2t^2$ (iii) $\frac{34}{15}s^2t^2$ (iv) $\frac{38}{17}s^2t^2$ (v) $\frac{12}{5}s^2t^2$

22. The constant term in polynomial $(-11ab-5a+8b+3)$ is

(i) 1 (ii) 6 (iii) 4 (iv) 3 (v) 2

23. Which of the following terms can be added to $(-9p^2o^2q^2)$?

(i) $6o^2p^2q^2$ (ii) $2op^2q$ (iii) $(-5op^2q^2)$ (iv) o^2p^2q (v) $(-9o^2pq)$

24. The value of $\frac{1}{2}p\times\frac{2}{3}pr\times\frac{1}{2}qr\times\frac{1}{2}pq$ is

(i) $\frac{1}{12}p^3q^2r^2$ (ii) $\frac{1}{14}p^3q^2r^2$ (iii) $\frac{1}{10}p^3q^2r^2$ (iv) $(-\frac{1}{12}p^3q^2r^2)$ (v) $\frac{1}{4}p^3q^2r^2$

25. The value of $9cde+6cde$ is

(i) $15cde$ (ii) $14cde$ (iii) $18cde$ (iv) $16cde$ (v) $12cde$

Assignment Key

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