EduSahara™ Assignment

Name : Polynomials Miscellaneous

Chapter : Polynomials and Factorisation

Grade : SSC Grade IX

1. The value of 107×107 is

   (i) 11450 (ii) 11448 (iii) 11451 (iv) 11447 (v) 11449

2. The value of $400\frac{1}{3} \times 400\frac{1}{3}$ is

   (i) 160267 (ii) $160266\frac{7}{9}$ (iii) $160266\frac{5}{9}$ (iv) $160266\frac{7}{11}$

3. The value of 499×499 is

   (i) 249001 (ii) 249000 (iii) 249004 (iv) 248998 (v) 249002

4. The value of $28\frac{2}{3} \times 28\frac{2}{3}$ is

   (i) $821\frac{7}{11}$ (ii) $821\frac{5}{9}$ (iii) 822 (iv) $821\frac{7}{9}$

5. The value of 19×1 is

   (i) 19 (ii) 20 (iii) 22 (iv) 18 (v) 17

6. The value of $400\frac{3}{4} \times 399\frac{1}{4}$ is

   (i) $159999\frac{7}{16}$ (ii) $159999\frac{7}{18}$ (iii) $159999\frac{1}{2}$ (iv) $159999\frac{5}{16}$ (v) $159999\frac{9}{16}$

7. The value of 68×69 is

   (i) 4692 (ii) 4690 (iii) 4693 (iv) 4691 (v) 4694

8. The value of $81\frac{1}{2} \times 81\frac{1}{2}$ is

   (i) $6641\frac{3}{4}$ (ii) $6642\frac{1}{4}$ (iii) $6642\frac{3}{4}$ (iv) $6642\frac{1}{2}$ (v) $6642\frac{1}{6}$

9. The value of 696×695 is

   (i) 483720 (ii) 483719 (iii) 483721 (iv) 483718 (v) 483723

10. The value of $599\frac{3}{4} \times 599\frac{1}{2}$ is

    (i) $359550\frac{1}{10}$ (ii) $359549\frac{7}{8}$ (iii) $359550\frac{1}{6}$ (iv) $359550\frac{3}{8}$ (v) $359550\frac{1}{8}$

11. The value of 75×67 is

    (i) 5024 (ii) 5022 (iii) 5028 (iv) 5026 (v) 5025

12. The value of $81\frac{1}{2} \times 79\frac{2}{3}$ is

(i) $6493\frac{1}{4}$ (ii) $6492\frac{1}{2}$ (iii) $6493\frac{1}{6}$ (iv) $6492\frac{5}{8}$ (v) $6492\frac{5}{6}$

13. Evaluate : $975^2 - 25^2$

(i) 950975 (ii) 950000 (iii) 95000 (iv) 9500000 (v) 950025

14. Find 708^3

(i) 354894902 (ii) 354894922 (iii) 354894912 (iv) 354894932 (v) 354894892

15. Find 191^3

(i) 6967851 (ii) 6967891 (iii) 6967861 (iv) 6967871 (v) 6967881

16. Find the value of $55^3 + 35^3 - 90^3$

(i) (-1331000) (ii) (-519750) (iii) 343000 (iv) (-343000) (v) 1331000

17. Find the value of $3.6^3 + 2.2^3 - 5.8^3$

(i) -137.808 (ii) 373.248 (iii) -373.248 (iv) -85.184 (v) 85.184

18. If $(a+b)=6$, $ab=8$, find (a^2+b^2)

(i) 17 (ii) 21 (iii) 20 (iv) 22 (v) 19

19. If $(a^2+b^2)=45$, $ab=18$, find $(a+b)$

(i) 10 (ii) 8 (iii) 12 (iv) 9 (v) 6

20. If $(a+b)=7$, $ab=12$, find (a^3+b^3)

(i) 92 (ii) 93 (iii) 90 (iv) 91 (v) 89

21. If $(a-b)=2$, $ab=24$, find (a^3-b^3)

(i) 155 (ii) 151 (iii) 152 (iv) 153 (v) 150

22. If $(a+b)=11$, $ab=30$, find (a^4+b^4)

(i) 1924 (ii) 1921 (iii) 1922 (iv) 1918 (v) 1920

23. If $(a^4+b^4)=1312$, $ab=12$, find $(a+b)$

(i) 7 (ii) 9 (iii) 8 (iv) 10 (v) 6

24. If $(a+b+c)=11$, $(a^2+b^2+c^2)=53$, find $(ab+ac+bc)$

(i) 32 (ii) 36 (iii) 34 (iv) 35 (v) 33

25. If $(a+b+c)=10$, $(ab+ac+bc)=33$, find $(a^2+b^2+c^2)$

(i) 35 (ii) 34 (iii) 33 (iv) 36 (v) 32

Assignment Key

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