EduSahara™ Assignment

Name : Division of Polynomials

Chapter : Algebraic Expressions

Grade : ICSE Grade VII

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1. The quotient when $(-2z)$ is divided by 6 is

   (i) $(-\frac{1}{3}z)$ (ii) $(-z)$ (iii) $\frac{1}{3}z$ (iv) $(-\frac{1}{5}z)$

2. The quotient when $(-2s^2)$ is divided by $(s-4)$ is

   (i) $(-3s-8)$ (ii) $(-2s-8)$ (iii) $(-s-8)$ (iv) (-8) (v) $(-5s-8)$

3. The quotient when $(6a-9)$ is divided by $(a-7)$ is

   (i) 5 (ii) 9 (iii) 7 (iv) 6 (v) 3

4. The quotient when $(-4i^2-6i+7)$ is divided by $(i-5)$ is

   (i) $(-5i-26)$ (ii) $(-2i-26)$ (iii) $(-3i-26)$ (iv) $(-6i-26)$ (v) $(-4i-26)$

5. The quotient when $(-9i^2+9i)$ is divided by $(i+6)$ is

   (i) $(-12i+63)$ (ii) $(-7i+63)$ (iii) $(-8i+63)$ (iv) $(-9i+63)$ (v) $(-10i+63)$

6. The quotient when $(5m^3-2m^2+7m)$ is divided by $(m+1)$ is

   (i) $(5m^2-7m+14)$ (ii) $(6m^2-7m+14)$ (iii) $(3m^2-7m+14)$ (iv) $(4m^2-7m+14)$ (v) $(8m^2-7m+14)$

7. The quotient when $(-j^4+4j^3+3j^2-7j-8)$ is divided by $(j-1)$ is

   (i) $(3j^2+6j-1)$ (ii) $(2j^3+3j^2+6j-1)$ (iii) $(-3j^3+3j^2+6j-1)$ (iv) $(-2j^3+3j^2+6j-1)$

   (v) $(-j^3+3j^2+6j-1)$

8. The quotient when $(7a^5+2a^4-5a^3-a^2+8a+2)$ is divided by $(a-2)$ is

   (i) $(7a^4+16a^3+27a^2+53a+114)$ (ii) $(8a^4+16a^3+27a^2+53a+114)$ (iii) $(6a^4+16a^3+27a^2+53a+114)$

   (iv) $(5a^4+16a^3+27a^2+53a+114)$ (v) $(9a^4+16a^3+27a^2+53a+114)$

9. The remainder when $3x$ is divided by 4 is

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

10. The remainder when $9n^2$ is divided by $(n+6)$ is

    (i) 321 (ii) 324 (iii) 327 (iv) 323 (v) 325

11. The remainder when $(4w+6)$ is divided by $(w+9)$ is

    (i) (-27) (ii) (-29) (iii) (-31) (iv) (-33) (v) (-30)

12. The remainder when $(5i^2+3i)$ is divided by $(i+3)$ is

(i) 37 (ii) 34 (iii) 38 (iv) 35 (v) 36

13. The remainder when $(7n^2-n-6)$ is divided by $(n-2)$ is

(i) 17 (ii) 20 (iii) 19 (iv) 23 (v) 21

14. The remainder when $(4m^3-5m-1)$ is divided by (m^2-5m+4) is

(i) $(81m-81)$ (ii) $(76m-81)$ (iii) $(80m-81)$ (iv) $(78m-81)$ (v) $(79m-81)$

15. The remainder when $(-5i^4+3i^3+4i^2-3i+6)$ is divided by $(i^2+12i+32)$ is

(i) $(5086i+18950)$ (ii) $(5082i+18950)$ (iii) $(5085i+18950)$ (iv) $(5088i+18950)$ (v) $(5084i+18950)$

16. The remainder when $(5n^4-5n^3-7n-9)$ is divided by $(n+6)$ is

(i) 7595 (ii) 7590 (iii) 7593 (iv) 7592 (v) 7594

17. $(4x^3+16x^2+19x+6)\div(-2x^2-5x-2)=$

(i) $(-2x+3)$ (ii) $(-x-3)$ (iii) $(-3x-3)$ (iv) $(-2x-3)$ (v) $(2x-3)$

18. $(6x^4+14x^3-2x^2-14x-4)\div(2x^3+4x^2-2x-4)=$

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

19. $(-108x^5+54x^4+156x^3-78x^2-48x+24)$ divided by $(-12x^3+2x^2+10x-4)=$

(i) $(9x^2-2x-6)$ (ii) $(9x^2-4x-6)$ (iii) $(9x^2-3x-6)$ (iv) $(9x^2-3x+6)$ (v) $(9x^2+3x-6)$

20. $(180x^4y^4+36x^4y^3)\div 6x^2y^2=$

(i) $(30x^2y^2+6xy^2)$ (ii) $(30x^2y^2+6x^2y)$ (iii) $(30x^3y^3+6x^2y)$ (iv) $(30x^3y^4+6x^2y)$

(v) $(6x^2y^2z+30x^2y^2)$

21. $(288x^3y^4z^2+2016x^2y^4z^3+36x^2y^3z^2)\div 6xy^2z=$

(i) $(48x^2y^2z+336xy^2z^2+6xyz)$ (ii) $(48x^3y^4z+336xy^2z^2+6xyz)$ (iii) $(48x^2y^2z+6xyz+336y^3z^2)$

(iv) $(48x^2y^2z+336xy^3z^3+6xyz)$ (v) $(48x^3y^3z+336xy^2z^2+6xyz)$

22. $(25x^4+15x^3)\div 5x^2$

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

23. $(20x^4+14x^3+2x^2)\div(4x^2+2x)$

(i) $(5x^2-x)$ (ii) $(4x^2+x)$ (iii) $(-5x^2+x)$ (iv) $(5x^2+2x)$ (v) $(5x^2+x)$

24. $(2x^4-7x^3-50x^2+175x)\div(2x^2-17x+35)$

(i) (x^2-5x) (ii) (x^2+5x) (iii) $(-x^2+5x)$ (iv) (x^2+4x) (v) (x^2+6x)

25. Find the remainder when $(6x^2+4x-10)$ is divided by $(x-5)$

(i) 162 (ii) 157 (iii) 159 (iv) 161 (v) 160

Assignment Key

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

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