EduSahara™ Assignment

Name : Division of Polynomials

Chapter : Algebraic Expressions

Grade : ICSE Grade VII

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1. The quotient when $(-7q)$ is divided by (-4) is

   (i) $\frac{5}{2}q$ (ii) $\frac{5}{4}q$ (iii) $\frac{9}{4}q$ (iv) $\frac{3}{2}q$ (v) $\frac{7}{4}q$

2. The quotient when $7b^2$ is divided by $(b-4)$ is

   (i) $(6b+28)$ (ii) $(7b+28)$ (iii) $(10b+28)$ (iv) $(8b+28)$ (v) $(4b+28)$

3. The quotient when $(-5b+6)$ is divided by $(b-7)$ is

   (i) (-2) (ii) (-6) (iii) (-7) (iv) (-5) (v) (-4)

4. The quotient when $(8h^2-5h-5)$ is divided by $(h+1)$ is

   (i) $(5h-13)$ (ii) $(9h-13)$ (iii) $(11h-13)$ (iv) $(7h-13)$ (v) $(8h-13)$

5. The quotient when $(-q^2+5q)$ is divided by $(q+5)$ is

   (i) $(-q+10)$ (ii) 10 (iii) $(-4q+10)$ (iv) $(-2q+10)$ (v) $(q+10)$

6. The quotient when $(-8v^3+4v^2+5)$ is divided by (v^2-6v+5) is

   (i) $(-11v-44)$ (ii) $(-8v-44)$ (iii) $(-5v-44)$ (iv) $(-9v-44)$ (v) $(-7v-44)$

7. The quotient when $(-8f^4+3f^3-8f^2+9f+6)$ is divided by (f^2+5f-6) is

   (i) $(-8f^2+43f-271)$ (ii) $(-10f^2+43f-271)$ (iii) $(-9f^2+43f-271)$ (iv) $(-5f^2+43f-271)$

   (v) $(-7f^2+43f-271)$

8. The quotient when $(8e^5+5e^4-6e^3-4e^2-4e+3)$ is divided by $(e+2)$ is

   (i) $(8e^4-11e^3+16e^2-36e+68)$ (ii) $(9e^4-11e^3+16e^2-36e+68)$ (iii) $(6e^4-11e^3+16e^2-36e+68)$

   (iv) $(7e^4-11e^3+16e^2-36e+68)$ (v) $(11e^4-11e^3+16e^2-36e+68)$

9. The remainder when n is divided by 9 is

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

10. The remainder when $(-2n^2)$ is divided by $(n+3)$ is

    (i) (-19) (ii) (-17) (iii) (-20) (iv) (-18) (v) (-16)

11. The remainder when $(2p-5)$ is divided by $(p+6)$ is

    (i) (-20) (ii) (-14) (iii) (-18) (iv) (-16) (v) (-17)

12. The remainder when $(9s^2+2s)$ is divided by $(s-7)$ is

(i) 454 (ii) 458 (iii) 456 (iv) 453 (v) 455

13. The remainder when $(-7h^2+4h-9)$ is divided by $(h-4)$ is

(i) (-104) (ii) (-103) (iii) (-107) (iv) (-106) (v) (-105)

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

(i) 1 (ii) (-2) (iii) (-1) (iv) (-3) (v) (-5)

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

(i) (-380) (ii) (-381) (iii) (-385) (iv) (-382) (v) (-383)

16. The remainder when $(4n^4+6n^3+7n^2+7)$ is divided by $(n-6)$ is

(i) 6739 (ii) 6740 (iii) 6738 (iv) 6742 (v) 6737

17. $(18x^3-39x^2+27x-6)\div(9x^2-15x+6)=$

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

18. $(-27x^4-27x^3+9x^2+7x-2)\div(9x^3+12x^2+x-2)=$

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

19. $(6x^5-4x^4-20x^3+14x+4)$ divided by $(3x^3+x^2-3x-1)=$

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

20. $(36x^4y^3+216x^4y^2)\div 6x^2y=$

(i) $(36x^2y^2z+6x^2y^2)$ (ii) $(6x^2y^2+36xy^2)$ (iii) $(6x^2y^2+36x^2y)$ (iv) $(6x^3y^4+36x^2y)$

(v) $(6x^3y^3+36x^2y)$

21. $(288x^3y^4z^4+1728x^2y^4z^4+36x^2y^3z^4)\div 6xy^2z^2=$

(i) $(48x^2y^2z^2+288xy^2z^2+6xyz^2)$ (ii) $(48x^3y^4z^2+288xy^2z^2+6xyz^2)$

(iii) $(48x^2y^2z^2+288xy^3z^3+6xyz^2)$ (iv) $(48x^2y^2z^2+6xyz^2+288y^3z^2)$

(v) $(48x^3y^3z^2+288xy^2z^2+6xyz^2)$

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

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

23. $(8x^4+22x^3+12x^2)\div(2x^2+4x)$

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

24. $(27x^4+81x^3-12x^2-36x)\div(9x^2+21x-18)$

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

25. Find the remainder when $(3x^2+13x+4)$ is divided by $(2x+9)$

(i) $\frac{13}{2}$ (ii) $\frac{25}{4}$ (iii) $\frac{27}{4}$ (iv) $\frac{37}{6}$ (v) $\frac{23}{4}$

Assignment Key

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

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