EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Factorisation

Grade : CBSE Grade VIII

1. The remainder when $(8z^2-3z-3)$ is divided by $(z-4)$ is

   (i) 116 (ii) 114 (iii) 112 (iv) 110 (v) 113

2. $k^3/^2=$

   (i) $-2\times k\times k\times k\times /\times /$ (ii) $k\times k\times k\times k\times /\times /$ (iii) $k\times k\times /\times /$ (iv) $3\times k\times k\times k\times /\times /$ (v) $k\times k\times k\times /\times /$

3. The quotient when $(-9t^2-4t)$ is divided by $(t+4)$ is

   (i) $(-9t+32)$ (ii) $(-10t+32)$ (iii) $(-12t+32)$ (iv) $(-8t+32)$ (v) $(-6t+32)$

4. Factorize $(x^4-15x^3+39x^2+235x-900)$

   (i) $(x+4)(3x-5)(4x-9)(4x-5)$ (ii) $(x+4)(-x-5)(-2x-9)(-x-5)$ (iii) $(x+4)(-5)(-9)(-5)$

   (iv) $(x+4)(2x-5)(2x-9)(2x-5)$ (v) $(x+4)(x-5)(x-9)(x-5)$

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

   (i) $(-7m^3+76m^2-693m+6235)$ (ii) $(-9m^3+76m^2-693m+6235)$ (iii) $(-10m^3+76m^2-693m+6235)$

   (iv) $(-8m^3+76m^2-693m+6235)$ (v) $(-5m^3+76m^2-693m+6235)$

6. The quotient of $(27a^3-144abc-64b^3-64c^3)\div(3a-4b-4c)$ is

   (i) $(9a^2+12ab+12ac+16b^2-16bc+16c^2)$ (ii) $(9a^2+15ab+12ac+16b^2-16bc+16c^2)$

   (iii) $(8a^2+12ab+12ac+16b^2-16bc+16c^2)$ (iv) $(10a^2+12ab+12ac+16b^2-16bc+16c^2)$

   (v) $(9a^2+10ab+12ac+16b^2-16bc+16c^2)$

7. Factorize $(16a^2-8ab+8ac+b^2-2bc+c^2)$

   (i) $(-4a-2b-c)(-4a-b-c)$ (ii) $(-3a+b-c)(-3a+b-c)$ (iii) $(-4a+3b-c)(-4a+3b-c)$

   (iv) $(-4a+b-c)(-4a+b-c)$ (v) $(-5a+b-c)(-5a+b-c)$

8. Which of the following are not polynomials?

   a) $\frac{(8x+4y)}{(2x-11y)}$

   b) $\sqrt{x}$

   c) $121x^2$

   d) $(16x^2-80xy-44y^2)$

   e) $(2x-11y)$

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

9. Factorize $(x^3+5x^2-16x-80)$

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

(v) $(x+5)(3x+4)(3x-4)$

10. Which of the following are true?

a) πr^2 is a monomial

b) Degree of zero polynomial is zero

c) Every polynomial is a binomial

d) A binomial has two and only two terms

e) A binomial may have degree 3

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

11. The quotient when $(-5d^3+6d-9)$ is divided by (d^2+5d-6) is

(i) $(-5d+25)$ (ii) $(-6d+25)$ (iii) $(-4d+25)$ (iv) $(-7d+25)$ (v) $(-2d+25)$

12. The quotient of $(-64a^3-64b^3) \div (-4a-4b)$ is

(i) $(16a^2-19ab+16b^2)$ (ii) $(17a^2-16ab+16b^2)$ (iii) $(15a^2-16ab+16b^2)$ (iv) $(16a^2-13ab+16b^2)$

(v) $(16a^2-16ab+16b^2)$

13. $m \times m \times m \times n \times n \times n \times o \times o \times o =$

(i) $-m^3n^3o^3$ (ii) $m^4n^3o^3$ (iii) $m^2n^3o^3$ (iv) $3m^3n^3o^3$ (v) $m^3n^3o^3$

14. $(20x^3y^4+4x^2y^4) \div 2xy^2 =$

(i) $(10x^3y^3+2xy^2)$ (ii) $(10x^2y^2+2xy^2)$ (iii) $(10x^2y^2+2xy^3z)$ (iv) $(10x^2y^2+2y^3)$

(v) $(10x^3y^4+2xy^2)$

15. Factorize $(x^2+7x+10)$

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

16. Factorize $(4x^2+4x-35)$

(i) $(2x+7)(5x-5)$ (ii) $(2x+7)(3x-5)$ (iii) $(2x+7)(x-5)$ (iv) $(2x+7)(-x-5)$ (v) $(2x+7)(2x-5)$

17. $11 \times e \times e \times e \times f \times f \times f =$

(i) $14e^3f^3$ (ii) $8e^3f^3$ (iii) $11e^4f^3$ (iv) $11e^3f^3$ (v) $11e^2f^3$

18. Factorize $(25x^2+5xy-2y^2)$

(i) $(5x+2y)(5x-y)$ (ii) $(5x-2y)(5x+y)$ (iii) $(5x+2y)(5x+y)$ (iv) $(5x+2y)(5x-2y)$

(v) $(5x-2y)(5x-y)$

19. $(144x^3y^4z^3+36x^3y^3z^3+720x^2y^3z^3)\div 6xy^2z=$

(i) $(24x^3y^4z^2+6x^2yz^2+120xyz^2)$ (ii) $(24x^3y^3z^2+6x^2yz^2+120xyz^2)$

(iii) $(24x^2y^2z^2+6x^2yz^2+120xyz^2)$ (iv) $(6x^2y^2z^3+24x^2y^2z^2+120xyz^2)$

(v) $(24x^2y^2z^2+6xy^2z^2+120xyz^2)$

20. Factorize $(100x^2-100)$

(i) $(10x+25)(10x-4)$ (ii) $(10x+10)(10x+10)$ (iii) $(10x-25)(10x+4)$ (iv) $(10x+10)(10x-10)$

(v) $(10x-10)(10x-10)$

21. The quotient when $(8u^2+6u+3)$ is divided by $(u-7)$ is

(i) $(8u+62)$ (ii) $(11u+62)$ (iii) $(9u+62)$ (iv) $(7u+62)$ (v) $(6u+62)$

22. $(-24x^5+32x^4+34x^3-38x^2-10x+6)$ divided by $(12x^3-10x^2-16x+6)=$

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

23. The remainder when $(-6d^3-d^2-1)$ is divided by $(d+6)$ is

(i) 1257 (ii) 1260 (iii) 1261 (iv) 1258 (v) 1259

24. $7\times h\times h\times h=$

(i) $5h^3$ (ii) $9h^3$ (iii) $7h^3$ (iv) $7h^2$ (v) $7h^4$

25. The remainder when $(-8s^2-4s)$ is divided by $(s-7)$ is

(i) (-419) (ii) (-418) (iii) (-420) (iv) (-421) (v) (-422)

Assignment Key

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