

EduSahara™ Learning Center Assignment**Grade : Class VII, ICSE****Chapter : Algebraic Expressions****Name : Division of Polynomials****Licensed To : Teachers and Students for non-commercial use**

The quotient when $(-2v)$

1. is divided by v is

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

The quotient when $8z^2$

2. is divided by $(z - 2)$ is

(i) $(8z + 16)$ (ii) $(9z + 16)$ (iii) $(7z + 16)$

(iv) $(5z + 16)$ (v) $(10z + 16)$

The quotient when $(v - 8)$

3. is divided by $(v + 4)$ is

(i) 0 (ii) 1 (iii) 2 (iv) 4 (v) (-1)

The quotient when $(-3p^2 - 8p + 6)$

4. is divided by $(p + 5)$ is

(i) $(-2p + 7)$ (ii) $(-p + 7)$ (iii) $(-3p + 7)$

(iv) $(-5p + 7)$ (v) $(-4p + 7)$

The quotient when $(-3h^2 + 3h)$

5. is divided by $(h + 4)$ is

(i) $(-6h + 15)$ (ii) $(-h + 15)$ (iii) $(-4h + 15)$

(iv) $(-3h + 15)$ (v) $(-2h + 15)$

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

- (i) $(-4c + 12)$ (ii) $(-6c + 12)$ (iii) $(-5c + 12)$
(iv) $(-3c + 12)$ (v) $(-2c + 12)$
-

7. The quotient when $(2a^4 + 7a^3 + 5a^2 + 5a - 1)$
is divided by $(a^2 + 6a - 7)$ is

- (i) $(2a^2 - 5a + 49)$ (ii) $(5a^2 - 5a + 49)$ (iii) $(a^2 - 5a + 49)$
(iv) $(3a^2 - 5a + 49)$ (v) $(-a^2 - 5a + 49)$
-

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

- (i) $(-8w^4 - 76w^3 - 693w^2 - 6232w - 56084)$
(ii) $(-6w^4 - 76w^3 - 693w^2 - 6232w - 56084)$
(iii) $(-9w^4 - 76w^3 - 693w^2 - 6232w - 56084)$
(iv) $(-12w^4 - 76w^3 - 693w^2 - 6232w - 56084)$
(v) $(-10w^4 - 76w^3 - 693w^2 - 6232w - 56084)$
-

9. The remainder when $(-7w)$
is divided by (-8) is

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

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

(i) (-25) (ii) (-27) (iii) (-29) (iv) (-28) (v) (-30)

11. The remainder when $(n - 2)$
is divided by $(n + 2)$ is

(i) (-3) (ii) (-2) (iii) (-5) (iv) (-7) (v) (-4)

12. The remainder when $(-6a^2 - a)$
is divided by $(a + 1)$ is

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

13. The remainder when $(4n^2 - 5n + 6)$
is divided by $(n + 5)$ is

(i) 129 (ii) 131 (iii) 132 (iv) 133 (v) 130

14. The remainder when $(-3s^3 - 2s + 4)$
is divided by $(s^2 - 11s + 24)$ is

(i) $(-292s + 796)$ (ii) $(-295s + 796)$ (iii) $(-293s + 796)$
(iv) $(-290s + 796)$ (v) $(-294s + 796)$

15. The remainder when $(4y^4 - 6y^3 - y^2 - 8y + 7)$
is divided by $(y^2 - 10y + 9)$ is

(i) $(2714y - 2720)$ (ii) $(2716y - 2720)$ (iii) $(2715y - 2720)$
(iv) $(2718y - 2720)$ (v) $(2717y - 2720)$

16. The remainder when $(4c^4 - 9c^3 - 5c + 6)$
is divided by $(c^2 + 7c + 12)$ is

- (i) $(-1041c - 2526)$ (ii) $(-1035c - 2526)$ (iii) $(-1037c - 2526)$
 (iv) $(-1039c - 2526)$ (v) $(-1038c - 2526)$
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17. $(2x^3 - 5x^2 + x + 2) \div (x^2 - 3x + 2) =$

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

18. $(-6x^4 + 29x^3 - 30x^2 - 11x + 6) \div (3x^3 - 16x^2 + 23x - 6) =$

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

19. $(-12x^5 + 60x^4 - 81x^3 - 21x^2 + 96x - 36)$ divided by
 $(-3x^3 + 9x^2 - 12) =$

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

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

- (i) $(36x^3y^2 + 6xy)$ (ii) $(36x^2y + 6xy)$ (iii) $(36x^2y + 6xy^2z)$
 (iv) $(36x^2y + 6y^2)$ (v) $(36x^3y^3 + 6xy)$
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21. $(112x^4y^4z^4 + 224x^4y^3z^4 + 16x^3y^3z^4) \div 4x^2y^2z^2 =$

- (i) $(56x^2y^2z^3 + 28x^2y^2z^2 + 4xyz^2)$ (ii) $(28x^3y^4z^2 + 56x^2yz^2 + 4xyz^2)$
 (iii) $(28x^3y^3z^2 + 56x^2yz^2 + 4xyz^2)$ (iv) $(28x^2y^2z^2 + 56xy^2z^2 + 4xyz^2)$

$$(v) \ (28x^2y^2z^2 + 56x^2yz^2 + 4xyz^2)$$

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

$$(i) \ (x^2 + 2x) \ (ii) \ (x^2 + x) \ (iii) \ (-x^2 + x)$$

$$(iv) \ (x^2 - x) \ (v) \ x$$

$$23. \ (12x^4 + 32x^3 + 20x^2) \div (4x^2 + 4x)$$

$$(i) \ (3x^2 + 6x) \ (ii) \ (2x^2 + 5x) \ (iii) \ (3x^2 + 5x)$$

$$(iv) \ (3x^2 - 5x) \ (v) \ (-3x^2 + 5x)$$

$$24. \ (6x^4 + 53x^3 + 41x^2 + 8x) \div (2x^2 + 17x + 8)$$

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

$$(iv) \ (3x^2 + 2x) \ (v) \ 3x^2$$

$$25. \text{ Find the remainder when } (3x^2 + 7x - 20) \text{ is divided by } (2x + 2)$$

$$(i) \ -23 \ (ii) \ -24 \ (iii) \ -26 \ (iv) \ -21 \ (v) \ -25$$

Assignment Key

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