



DELHI PUBLIC SCHOOL FIROZABAD

(UNDER THE AEGIS OF DELHI PUBLIC SCHOOL SOCIETY EAST OF KAILASH NEWDELHI)

(A SENIOR SECONDARY SCHOOL)

AFFILIATED TO CBSE, AFFILIATION NO. 2133064 SCHOOL NO: 61225



MATHEMATICS (Worksheet-02)

Name: _____

Class: VIII

Roll No.: _____

I. Answer the following questions:

1. Find the HCF of the monomials $4x^2y^3z^4w^2$, $12x^4y^2z^3w^5$ and $18x^3y^4z^2$.

2. Factorize the following:

(a) $5(3x - 4) + 7(3x - 4)$

(b) $8(5x - 9y)^2 - 12(5x - 9y)$

(c) $(2x - 3y)^2 - 6x + 9y$

(d) $9(x - y)^2 + 6(y - x)$

3. Factorize: $(2x + y)(5x - 3y) - (x + y)(5x - 3y)$

4. Factorize by grouping the terms:

(a) $x^2 + xy + 8x + 8y$

(b) $15pq + 15 + 9q + 25p$

5. Factorize:

(a) $16x^2 - 25y^2$

(b) $81x^4 - 625$

(c) $L^4 - (m + n)^4$

6. Evaluate:

$(402)^2 - (398)^2$ using the identity $p^2 - q^2 = (p + q)(p - q)$

7. Factorize:

(a) $9a^2 + 24ab + 16b^2$

(b) $25a^2 - 4b^2 + 28bc - 49c^2$