INDIAN SCHOOL DARSAIT
DEPARTMENT OF MATHEMATICS

Subject : Mathematics Topic : Factorisation(3) Date of Worksheet : _____

Resource Person:MrsPriyaBijukumar Date : _____

Name of the Student :_____ Class & Division : VIII Roll Number : __

	SECTION-A	Marks
1	Write down the terms of the expression $-15x^3y + \frac{3}{5}x^2yz - 5xyz + \frac{1}{1}$	
2	Add: (a) $3x + 15y$, $-7x + 5y - 6$ and $-7y + 2x - 11$ (b) $-x^2 - xy - y^2$, $4y^2 + 2x^2 - 3xy$ and $7xy$	
3	Write down the terms of the expression $-15x^3y + \frac{3}{5}x^2yz - 5xyz + \frac{1}{1}$	
4	Find out the terms containing x and write the coefficient of x in the expression $16y^2 - 3xy + 6x + 11$	
5	Group the like terms together from the following. (a) Cab^2, a^2bc, b^2ac, c^2ab, ab^2c, abc, acb^2 (b) Xy^2, $-x^2y$, $2y^2x$, $3yx^2$	

	SECTION-B	
1.	Factorise the following: (i) $20a^3 - 25a^2b$ (ii) $10p^2qr + 12p^2q^2r - 16p^2qr^3$	2
2.	Factorise the following algebraic expressions using regrouping: (i) $5xy - y^2 + 10xz - 2yz$ (ii) $pa^2 + qb^2 + pb^2 + qa^2$	2
3.	Factorise using identities: (i) $x^2 + 16x + 64$ (ii) $1 - 6x + 9x^2$ (iii) $25a^2 - 40a + 16$	2
4.	Factorise using identities: (i) $100 - 49a^2$ (ii) $x^3 - 64x$ (iii) $36x^2y^2 - 25$	3
5.	Factorise using identities: (i) $x^2 - 8x - 33$ (ii) $x^2 + 25x - 54$ (iii) $p^2 - 11p - 102$ (iv) $x^2 + 9x + 20$	3

6.	Divide the following algebraic expressions: (i) $35x^6y^4$ by $7x^2y^2$ (ii) 7x -35 by 7	2
	SECTION –C(Hot questions)	
1	Factorize the following: a) $p^2+5pq-36q^2$ b) a^4-b^4 d) x^6-64	
2	Factorize: a). $4a^2+ b^2+ 4ab + 8a +4b+4$ b). $p^2+ pq+ \frac{q^2}{4} + p+\frac{q}{2}$	