	The City	School	
Boys Campus North Nazimabad			
	Subject: Mat	hematics	
	Topic Te	est 4	Since 1978
	Topic: Algebra	and Indices	
	Paper	C	
Name	Class 9/Sec:	Date:	_ Max. Marks[15]
Q1: Simplify the following indices	leaving them in	index form.	(3)
(Law 1: Addition $x^a \times x^b = x^{a-1}$	^{+b})		
1) $3q^2 \times 2q^5$ 2)	$3p^2 imes 4p^{-5}$	3) $5a^3 \times 2b^2 \times 2b^2$	$2a^2$
Q2: Simplify the following indices lea	aving them in inde	ex form.	(3)
(Law 2: Subtraction $x^a \div x^b = x^{a-1}$	^{-b})		
1) $d^8 \div d^3$ 2) $\frac{4a^3 \times a^8}{a^4}$			
Q3: Express the following in Ordir	nary Notation an	d Standard Form respe	ectively: (3)
a) $3.5 \times 10^4 + 4.5 \times 10^5$			
b) 4.67× 10³			
c) 3769000			
Q4: Expand each of the followings	•		(6)
a) $-6(-3x + 3y)(6x - 6y)$			
b) $(4x-3)(2x-5)$			
c) $(4x-3)(2x-5)$			

	The City School	
	Boys Campus North Nazimabad Subject: Mathematics Topic Test 4	ALL TO LEADS Since 1978
	Topic: Algebra and Indices Paper D	
Name	Class 9/Sec: Date:	Max. Marks[15]
Q1: Where possible find th	e value of the following in <i>fractional</i> form.	(2)
(Law 3: Negative x^{-2}	$=\frac{1}{r^{a}}$)	
1) $\frac{4p^{-2} \times 5p^{-3}}{10p^2}$	2) $5^3 \times 5^5$	
Q2: Simplify the following	in index form:	(3)
(Law 4: Zero $x^0 =$	1)	
1) 8 ⁰	$2)\frac{6d^3 \times 8d^4}{3d^2 \times 4d^5}$	
Q3: Simplify the following	in index form:	(2)
(Law 5: Multiplication (x	a) = $x^{a \times b}$	
1) $(a^2)(a^3)^7(a^3)$		
Q3: Express the followin a) $(8.64 \times 10^{10}) \div (3.64 \times 10^{10})$	ig in Ordinary Notation and Standard Form respective 3.6×10^6)	vely: (3)
b) 33.0006		
c) 3769000		
Q4: Expand each of the f	ollowings:	(6)
a) $5(2x + 7y)(2x - 4) = 6(-3x + 3y)(6x - 5)$	(y) = 6y	
u) $-0(-3x \pm 3y)(0x - 3x)(0x \pm 3y)(0x - 3x)(0x \pm 3x)(0x)(0x \pm 3x)(0x \pm 3x)(0x \pm 3x)(0x \pm 3x)(0x \pm 3x)$	- 0y)	
$C_{1} (4x - 3)(2x - 3)$		