APPENDICES

CONTENT AND AREA SPECIFICATION

No.	Content Area & Specification		Content Area & Specification
	Rational Numbers		
i.	Definition	b.	$\left(\dfrac{p}{q}\right)^m \div \left(\dfrac{p}{q}\right)^n = \left(\dfrac{p}{q}\right)^{m-n}$
ii.	Equality		
iii.	Standard form		$= \dfrac{1}{\left(\dfrac{p}{q}\right)^{n-m}}$
iv.	Representation on number line		
v.	Order relation	c.	$\left(\left(\dfrac{p}{q}\right)^m\right)^n = \dfrac{p^{m \times n}}{q}$
vi.	Reciprocal		
vii.	Absolute value	d.	$\left(\dfrac{p}{q}\right)^m = \dfrac{p^m}{q^m}$
	Operations on rational numbers	iii.	Negative integral exponent
i.	Addition		
a.	Common denominators		**Profit & Loss**
b.	Different denominators	-	To find CP when SP & Profit
ii.	Subtraction		percentage given
iii.	Props. of subtraction	-	Percentage
iv.	Multiplication	-	To find SP when CP and profit
v.	Properties of Multiplication		Percentage given
vi.	Division	-	To find SP when CP and loss
vii.	Properties		percentage given
viii.	Non-terminating decimal	-	To find CP when SP and loss
	representation		percentage given
	Exponents		**Simple Interest**
i.	Definition of a^n, a is rational	-	To find simple interest using the
ii.	Laws of positive exponents		formula $\dfrac{PRT}{100} = SI$
a.	$\left(\dfrac{p}{q}\right)^m \times \left(\dfrac{p}{q}\right)^m = \left(\dfrac{p}{q}\right)^{m+n}$		

No.	Content Area & Specificiation		Content Area & Specification
-	To find the principal amount		Factorisation
-	To find the duration, 'time' T	i.	Factorisation by taking common
-	To find the rate of interest 'R'	ii.	Factorisation by grouping
		iii.	Factorisation by 'perfect squares'
	Expansion of Algebraic Expression .		formulae
-	Multiplication of monomial by a Monomial	iv.	Factorisation by difference of two squares formula
-	Multiplication of a binomial by a Monomial	v.	Factorisation by completing the perfect square
-	Multiplication of a binomial by a Binomial		Linear Equations in one variable
		i.	Transposition
	Identities	ii.	Application to problem
i.	$(a + b)^2 = a^2 + 2ab + b^2$		
ii.	$(a - b)^2 = a^2 - 2ab + b^2$		
iii.	$(a + b)(a - b) = \quad a^2 - b^2$		