



Simplification

Key Concepts and Conditions:

BODMAS Rule:

Order of operations: Brackets, Orders (Powers and Roots), Division, Multiplication, Addition, and Subtraction:

Preference Order	Operator	Symbol
1st	Brackets	(),{},[]
2nd	Orders (Powers and Roots)	^, √
3rd	Division	÷
4th	Multiplication	X
5th	Addition	+
6th	Subtraction	-

Understand the rules of sign operations:

 $(+) \times (+) = (+)$ $(-) \times (-) = (+)$ $(-) \times (+) = (-)$

Important Formulas:

Fractions:

Addition/Subtraction: $\frac{a}{b} + \frac{c}{d} = \frac{ad+cb}{bd}$ Multiplication: $\frac{a}{b} \times \frac{c}{d} = \frac{ac}{bd}$ Division: $\frac{a}{b} \div \frac{c}{d} = \frac{a \times c}{b \times d}$

