

1.1 Variables and Expressions

Algebraic Expression- An expression consisting of one or more numbers and variables along with one or more arithmetic operations.

Variables- Symbols used to represent unspecified numbers or values.

Term- A number, a variable, or a product or quotient of numbers and variables.

Factors- In a multiplication expression, the quantities being multiplied.

Product- In an algebraic expression, the result of quantities being multiplied.

Power- An expression of the form x^n , read x to the nth power.

Exponent- Indicates the number of times the base is used as a factor.

Example 1

Write a verbal expression for each algebraic expression

a. $8x^2$

b. $y^5 - 16y$

Operation	Verbal Phrases
Addition	More than, sum, plus, increased by, added to
Subtraction	Less than, subtracted from, difference, decreased by, minus
Multiplication	Product of, multiplied by, times, of
Division	Quotient of, divided by

Example 2

Write an algebraic expression for each verbal expression.

a. 5 less than a number c b. 9 plus the product of 2 and d c. Two fifths of the area a

Mr. Nehru bought two adult tickets and three student tickets for the show. Write an algebraic expression that represents the cost of the tickets.