

A decorative floral motif in the upper right corner, featuring stylized leaves and a central circular element.

Algebraic Expressions form the basis of all the  
numerical calculations we do today. In a similar  
manner, Calculations like addition, subtraction,  
multiplication, division etc. are nothing but  
operations on numbers. We can say that  
arithmetic is the study of numbers. The  
study of arithmetic is very important as it  
is the foundation of all other branches of  
mathematics. It is also used in our daily  
life. For example, if we want to buy  
a book worth Rs. 100 and we have  
Rs. 50 in our pocket, then we will  
have to give Rs. 50 to the shopkeeper  
and get the remaining amount.  
Similarly, if we want to calculate  
the area of a rectangle of length  
l and breadth b, then we will  
use the formula  $A = l \times b$ .  
This formula is based on the  
concept of multiplication of  
numbers. Similarly, if we want  
to calculate the volume of a  
cuboid of dimensions l, b and h,  
then we will use the formula  
 $V = l \times b \times h$ .  
Thus, we can see that all the  
operations on numbers are based  
on the concept of algebraic  
expressions. So, we can say  
that algebraic expressions are  
nothing but a way of representing  
numerical calculations.

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