Unit : – Algebraic Symbols

Number of Periods : – 04

- Learn the pages 90, 91 and 92 thoroughly. The digits 0, 1, 2, 3, 4, 5, 6, 7, 8 and 9 that are used in mathematics are Hindu Arabic digits.

- Write five numbers that can be written by using the digits 1 and 3 only.

Example : -   13, 331

- Some other symbols that are used in mathematics.

Mathematical operation	Symbol
Addition	+
Subtraction	−
Mutiplication	×
Divsion	÷

> **1, 2, 3, ... +, −, ×, ÷, = the relationships written using these symbols are known as mathematical expressions.**

Write the method that is used to read the mathematical expression given below.

Ex: -   7+3 = 10

10 is obtained by adding 3 to 7

1) 9 + 5 = 14   2) 13 – 2 = 11   3) 8 × 3 =24   4) 24 ÷ 6 = 4

- Write the statements given below as mathematical expressions

  1) Five add three
  2) Seven times two
  3) Eight take away ten
  4) Twenty eight divided by four

| **A known constant value can be expressed using a number.** |
| **That term is known as a known term.** |

| **An unknown constant value can be expressed using a symbol.** |
| **That term is known as an unknown term.** |

- Match with B by identifying the statements in column A as the known term or unknown term.

A
Months in a year
Number of times a man breathes per day
Number of grams in a kilogram
Number of bananas in a cluster of banana
Number of people visiting a city in a week
Lifespan of a bulb

B
Known term
Unknown term (Unknown)

| **To denote an unknown constant in a mathematical expression** |
| **English simple letters are used, they are known as algebraic symbols.** |

Example : - I. Number of chairs in a school is *a*.

II. The length if your class room is *x*.

- Write five instances where unknown constants are used a s algebraic expressions.

- Complete the exercise 18.1 on the page 93 of the text book. Discuss the problems you face with your teacher and get them resolved.

| **If a quantity can get several values rather than a fixed value, that** |
| **quantity is known as a variable.** |

Example : - Price of coconut in the market.

A vehicle travels using a litre of petrol

- Complete the exercise 18.2 on the page 94 of the text book. Discuss the problems you face with your teacher and get them resolved.