



ST. LAWRENCE HIGH SCHOOL

A Jesuit Christian Minority Institution

STUDY MATERIAL

CLASS -VI

FIRST TERM



SUBJECT -ARITHMETIC CHAPTER 2 - WHOLE NUMBERS -DIVISION

Date - 04.05.20

Division is the inverse of multiplication.

Division Logarithm - Dividend = (Divisor X Quotient) + Remainder

Properties of Division -

1. Closure Property - Whole numbers are not closed under division. Exp - $5 \div 2 = 5/2$ which is not a whole number.
2. Commutative Property - Division is not commutative or associative for whole numbers. Exp - $12 \div 2$ is not equal to $2 \div 12$.
3. Division by 0 - If 0 is divided by any number, the result is 0. Exp- $0 \div 6 = 0$. But division by 0 is meaningless. Exp - $8 \div 0 =$ meaningless.
4. a) If a is a non zero whole number, then $a \div a = 1$ Exp - $21 \div 21 = 1$
b) If a is a whole number, then $a \div 1 = a$. Exp $45 \div 1 = 45$.

Some problems with solutions :

1. On dividing a certain number by 126, the quotient is 15 and the remainder is 4. Find the number.

Sol . We know, Dividend = (Divisor X Quotient) + Remainder

$$\begin{aligned} &= (126 \times 15) + 4 \\ &= 1890 + 4 \\ &= 1894 \text{ (Ans)} \end{aligned}$$

2. Find a whole number n, such that $n \div n = 1$

Sol . From the properties of division we know that $a \div a = 1$, therefore if $n = 1$ we have $1 \div 1 = 1$. Hence $n = 1$.

3. The population of a town is 450772. In a survey, it was reported that one out of every 14 persons is illiterate. In all how many illiterate persons are there in the town ?

Sol . Total population of a town is 450772.

One out of every 14 persons is illiterate.

Therefore - Nos of illiterate persons in the town = $450772 \div 14 = 32198$ persons.

Ans - 32198 illiterate persons are there in the town .

