## DIVISION

1) Division means repeated subtraction.

Ex :- $12 \div 3=4$
$\left.\begin{array}{l}12-3=9 \\ 9-3=6 \\ 6-3=3 \\ 3-3=0\end{array}\right]$ Limes
2) The number to be divided is called dividend.
3) The number by which we divide is called the divisor.
4) The resut obtained after division is called quotient.
5) The number remaining in the end is called remainder.
6) To check the division result, we need to follow the Division Algorithm. Divisor x Quotient + Remainder = Dividend


Check:- $\quad$ Divisor x Quotient + Remainder $=$ Dividend

$$
8 \mathrm{x} \quad 14+2=114
$$

## Properties of Division

1. Dividing a number by itself is equal to 1 .

Example: $7876 \div 7876=1$
2. Dividing zero by any number is equal to 0 .

Example: $0 \div 38765=0$
3. Dividing a number by 1 is equal to the number itself.

Example: $76208 \div 1=76208$
4. Dividing any number by zero is not defined.

Example: $3893 \div 0$ (not defined)


Write the quotient and the remainder for the following without actual division.

1. $375158 \div 10000$
2. $83890 \div 100$
3. $723610 \div 10$
4. $3046326 \div 1000$
5. $888420 \div 100000$
6. $13397 \div 1000$

## Solution:-

1) $375158 \div 10000 \rightarrow \mathrm{Q}=37 \quad \mathrm{R}=5158$
2) $83890 \div 100 \rightarrow \mathrm{Q}=838 \quad \mathrm{R}=90$
3) $888420 \div 100000 \rightarrow \mathrm{Q}=8 \quad \mathrm{R}=88420$
4) $13397 \div 1000 \rightarrow \quad \mathrm{Q}=13 \quad \mathrm{R}=397$

## Q3 and Q4 are homework

