DIVISION

1) Division means repeated subtraction.

Ex :- $12 \div 3 = 4$

$$12 - 3 = 9$$

$$9 - 3 = 6$$

$$6 - 3 = 3$$

$$3 - 3 = 0$$

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

$$1 4 \leftarrow Quotient$$
Divisor $\rightarrow 8$) 1 1 4 \leftarrow Dividend
$$- 8 \downarrow$$

$$3 4$$

$$- 3 2$$

$$2 \leftarrow Remainder$$

Check:- Divisor x Quotient + Remainder = Dividend

 $8 \quad x \quad 14 \quad + \quad 2 \quad = \quad 114$

Properties of Division

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

Example: 7876 ÷ 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 ÷ 1 = 76208

4. Dividing any number by zero is not defined.

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



Solution:-

- 1) $375158 \div 10000 \Rightarrow Q = 37$ R = 5158
- 2) $83890 \div 100 \rightarrow Q = 838$ R = 90
- 5) 888420 \div 100000 \rightarrow Q = 8 R = 88420
- 6) $13397 \div 1000 \rightarrow Q = 13$ R = 397

Q3 and Q4 are homework