

Division

① Division means equal sharing.

Example:

$$\begin{array}{r} \text{Divisor} \rightarrow 9 \overline{) 48} \quad \begin{array}{c} \text{Dividend} \\ \uparrow \\ 48 \end{array} \quad (5 \rightarrow \text{Quotient}) \\ \underline{-45} \\ 3 \\ \downarrow \\ \text{Remainder} \end{array}$$

② When 0 is divided by any number, the quotient is 0.

Example: $0 \div 7 = 0$

③ If we divide any number by 0, the result will be undefined.

Example: $15 \div 0 = \text{undefined}$.

④ Division is a repeated subtraction.

Keywords

- 1) Shared
- 2) Equal parts
- 3) Split
- 4) Half of

Divide by Repeated subtraction:

a) $24 \div 6$

(b) $45 \div 9$

Solⁿ:

$$24 - 6 = 18 \text{ ----- } 1$$

$$18 - 6 = 12 \text{ ----- } 2$$

$$12 - 6 = 6 \text{ ----- } 3$$

$$6 - 6 = 0 \text{ ----- } 4$$

(c) $20 \div 4$

Ans: 4

Division Facts

(a) $24 = 3 \times 8$

Division facts :

$$24 \div 3 = 8$$

$$24 \div 8 = 3$$

(b) $56 = 7 \times 8$

Division facts :

$$56 \div 7 = 8$$

$$56 \div 8 = 7$$

Long division Method

(a) $324 \div 2$

$$\begin{array}{r} 2 \overline{) 324} \quad (162 \\ \underline{-2} \\ 12 \\ \underline{-12} \\ 4 \\ \underline{4} \\ 0 \end{array}$$

Quotient = 162

(b) $515 \div 5$

3) $726 \div 13$