

## DIVISION

(Long Division with Remainder)
Long division is a method of finding the quotient and remainder in division problems. Division is actually the equal sharing of things, but some sometimes we cannot divide things equally and there is a number left at the end which is the 'remainder'.
Finding remainder is easy! Follow the simple division rules.

Example: $139 \div 6=23$ R 1

## Solution:

Since the first digit of the dividend is Less than the divisor we will take the first Two digits together and then divide by the Divisor.
$\Longrightarrow 6$ goes into 13 two times. Write 2 in quotient place.

Now multiply! $6 \times 2=12$
Write 12 under 13


Now Subtract! 13-12=1


Now bring down the next number i.e. 9 Since $1<6$.

| $6 \longdiv { 1 3 9 }$ |
| :---: |
| $\frac{-12 \downarrow}{19}$ |

Now repeat the same process.
Divide, multiply and subtract.
$\rightarrow 6 \times 3=18$
-> 19-18 = 1
Remainder=1
Quotient $=23$

| 23 | Quotient! |
| :---: | :---: |
| $6 \longdiv { 1 3 9 }$ |  |
| -12 |  |
| 19 |  |
| 18 |  |
|  | Remainder! |

