LONG DIVISION: DIVIDING 2 AND 3 DIGIT BY 1 DIGIT NUMBERS

The division algorithm is based on the following Euclid lemma:

$$a = bq + r$$

$$a, b, q, r \in \mathbb{Z}\,;\, b > 0\,;\, 0 \leq r < b$$

Where: a= Dividend.
b=Divisor.
q=Quotient.
r=Remainder.

TEXAN GLOBAL SCHOOL
Global Online Learning

www.texanglobalschool.com

EXAMPLE: Perform the following operation:

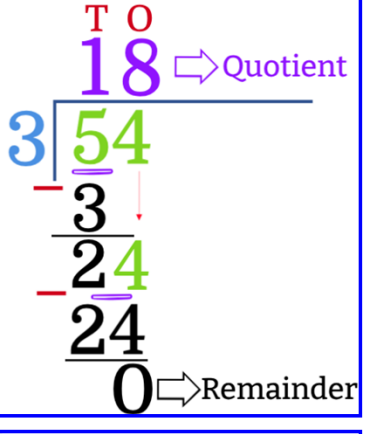
54÷3=

SOLUTION:

$\frac{54}{3}$ = 18

54 ⇨ Dividend
3 ⇨ Divisor

CONCLUSION:
54 ÷ 3 = 18
VERIFICATION:
54 = 3 x 18 + 0



EXAMPLE: Perform the following operation:

534÷ 2=

SOLUTION:

$\frac{534}{2}$ = 267

534 ⇨ Dividend
2 ⇨ Divisor

CONCLUSION:
534 ÷ 2 = 267
VERIFICATION:
534 = 2 x 267 + 0