



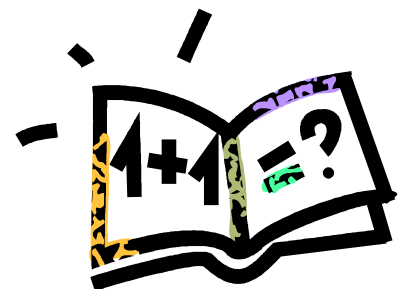
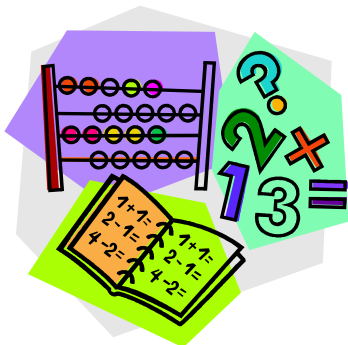
**BRITISH
INTERNATIONAL
SCHOOL**

HO CHI MINH CITY

A NORD ANGLIA EDUCATION SCHOOL

Parent's Guide to THE FOUR OPERATIONS:

ADDITION
SUBTRACTION
MULTIPLICATION
DIVISION



Addition

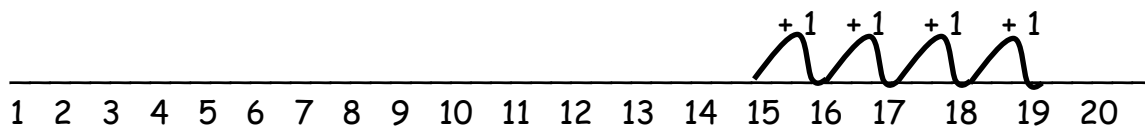
Visual and practical - $5 + 2$

Using objects to add numbers together i.e. 5 pens plus two pens

Using fingers to count on

Counting on to add

Numbered Lines - $15 + 4$



Partitioning $23 + 13$

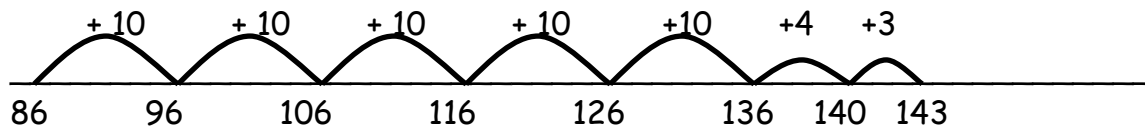
$$\begin{array}{r} \text{T U} \\ 23 \\ + \\ \text{T U} \\ 13 \\ \hline \end{array}$$

$$20 + 10 = 30$$

$$3 + 3 = 6$$

$$30 + 6 = 36$$

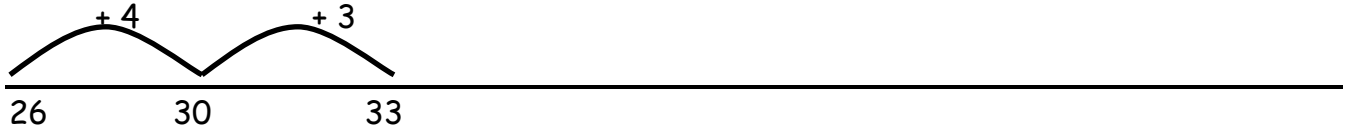
Empty Number Line - $86 + 57$



Answer = 143

Bridging 10

$26 + 7 =$



Answer = 33

3 Digit Partitioning - 356 + 427

$$\begin{array}{r} 300 + 400 = 700 \\ 50 + 20 = 70 \\ \underline{6 + 7 = 13} \\ 783 \end{array}$$

Extended Column Method - 356 + 427

$$\begin{array}{r} 356 \\ +427 \\ \hline 13 \\ 70 \\ \underline{700} \\ 783 \end{array}$$

Extending to decimals - 42.8 + 37.4

$$\begin{array}{r} 42.8 \\ +36.4 \\ \hline 1.2 \\ 8.0 \\ \underline{70.0} \\ 79.2 \end{array}$$

Compact Column Method - 587 + 475

$$587$$

$$\begin{array}{r} +475 \\ 1062 \\ \hline 1 \quad 1 \end{array}$$

Extending to decimals - $124.9 + 7.25$

$$\begin{array}{r} 124.9 \\ + 7.25 \\ \hline 132.15 \\ 1 \quad 1 \end{array}$$

Subtraction

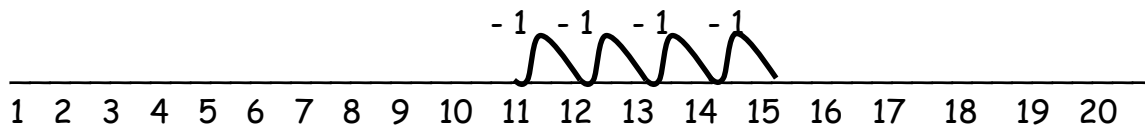
Visual and practical - $5 - 2$

Using objects to take numbers away i.e. 5 pens take away two pens

Using fingers to subtract

Counting back to subtract

Numbered Lines - $15 - 4$



Partitioning (if the digits in take away number are both smaller)

$$45 - 13$$

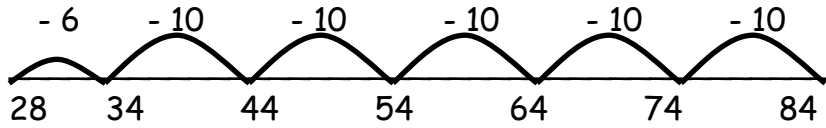
$$\begin{array}{r} \text{T U} \quad \text{T U} \\ 45 - 13 \end{array}$$

$$40 - 10 = 30$$

$$\begin{array}{r} 5 - 3 = 2 \\ = 32 \end{array}$$

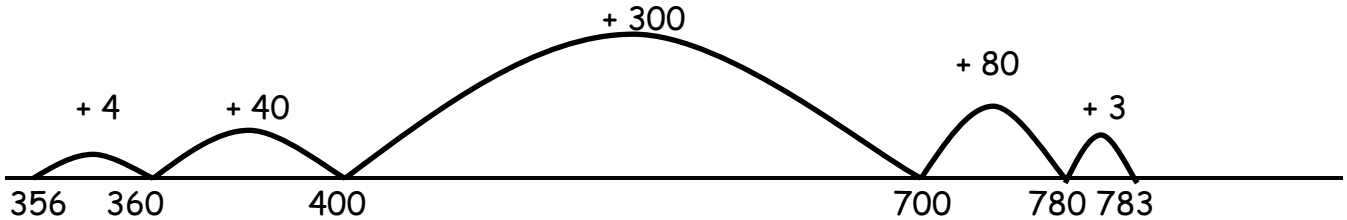
Number Line Counting in Tens and Units Counting Backwards

Counting Backwards - $84 - 56$



Answer = 28

Counting On (Finding the Difference) $783 - 356$



Answer = 427

Expanded Column Method - $758 - 235$

$$\begin{array}{r} 700 + 50 + 8 \\ - 200 + 30 + 5 \\ \hline 500 + 20 + 3 = 523 \end{array}$$

Extending to borrowing - $746 - 328$

$$\begin{array}{r} 30 \\ 700 + \cancel{40} + 6 \\ - 300 + 20 + 8 \\ \hline 400 + 10 + 8 = 418 \end{array}$$

Extending to decimals - $38.6 - 16.9$

$$\begin{array}{r} 7 \\ 30 + \cancel{8} + 0.6 \\ - 10 + 6 + 0.9 \\ \hline 20 + 1 + 0.7 = 21.7 \end{array}$$

Compact Column Method - 6467 - 2684


$$\begin{array}{r} 8 \text{ } 13 \\ \cancel{6} \cancel{4}^1 67 \\ - 2684 \\ \hline 3783 \end{array}$$

Extending to decimals - 324.6 - 18.9

$$\begin{array}{r} 1 \text{ } 13 \\ 3 \cancel{2} \cancel{4}^1 .6 \\ - 18.9 \\ \hline 305.7 \end{array}$$

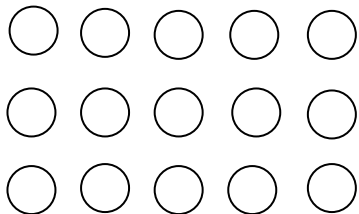
Multiplication

Visual and practical **grouping** 3×2



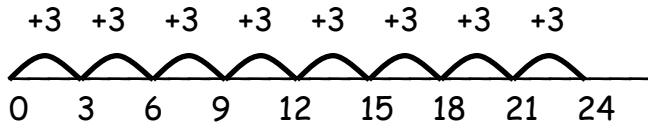
$$2 + 2 + 2 = 6$$

Multiplication as an array - 3×5



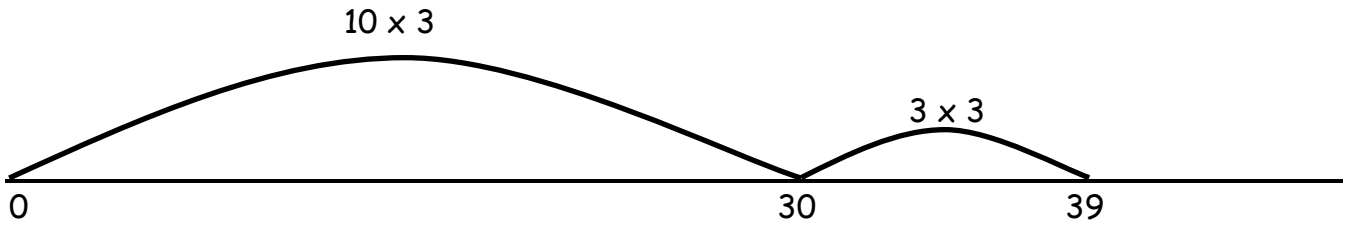
$$= 15$$

Repeated Addition on a Number Line - 8×3



Answer = 24

Extending to 13×3



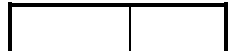
Answer = 39

The Grid Method - 15×9

X	10	5	
9	90	45	= 135

Extending to bigger numbers - 72×38

X	70	2	
30	2100	60	= 2160
8	560	16	= 576



$$= 2736$$

Column Method - 346×9

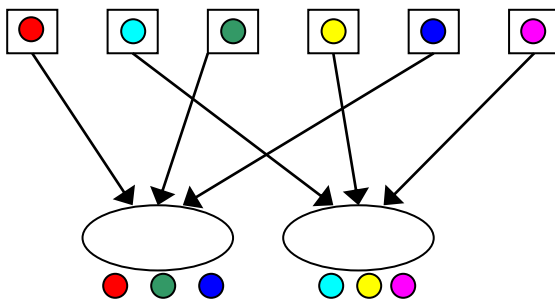
$$\begin{array}{r} 346 \\ \times 9 \\ \hline 54 \text{ (} 9 \times 6 \text{)} \\ 360 \text{ (} 9 \times 40 \text{)} \\ \underline{2700} \text{ (} 9 \times 300 \text{)} \\ 3114 \end{array}$$

Extending to decimals

$$\begin{array}{r} 4.9 \\ \times 3 \\ \hline 2.7 \text{ (} 3 \times 0.9 \text{)} \\ \underline{12.0} \text{ (} 3 \times 4 \text{)} \\ 14.7 \end{array}$$

Division

Practical activities - $6 \div 2$

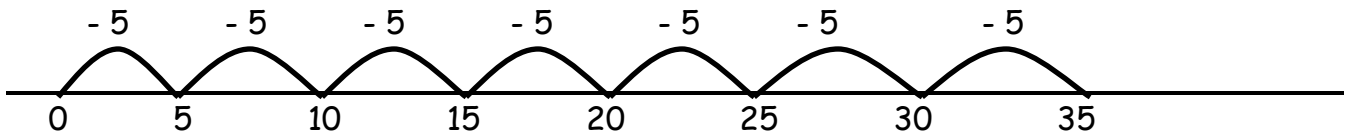


Practical grouping

$6 \div 2 =$ How many group of 2 make 6  = 3

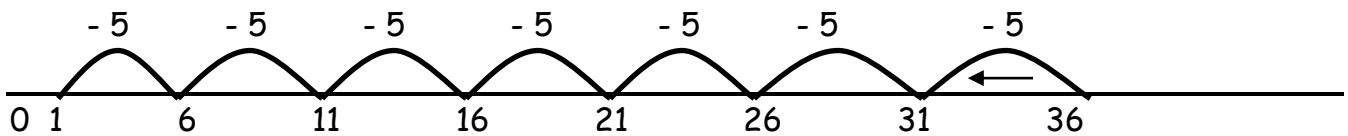
Skip counting 2, 4, 6

Repeated Subtraction - $35 \div 5$



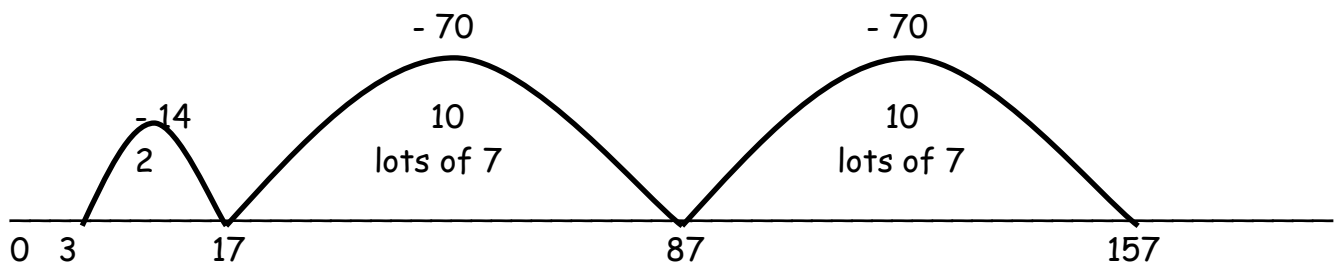
Answer = 7

Repeated Subtraction with a remainder $36 \div 5$



Answer = 7 remainder 1

Repeated Subtraction using Multiples - $157 \div 7$



Answer = 22 remainder 3

Chunking Method - $256 \div 7$

$$\begin{array}{r} 256 \\ - 70 \quad (10 \times 7) \\ \hline 186 \\ - 140 \quad (20 \times 7) \\ \hline 46 \\ - 42 \quad (6 \times 7) \\ \hline 4 \end{array}$$

Answer = 36 remainder 4

Extending to decimals - $87.5 \div 7$

$$\begin{array}{r} 87.5 \\ - 70.0 \quad (10 \times 7) \\ \hline 17.5 \\ - 14.0 \quad (2 \times 7) \\ \hline 3.5 \\ - 3.5 \quad (0.5 \times 7) \\ \hline 0.0 \end{array}$$

Answer = 12.5

Bus stop method

$264 \div 4$

$$4 \overline{) 266} \begin{array}{l} 66 \\ 266 \\ \hline 24 \\ \hline \end{array}$$

With Remainders

$$763 \div 6$$

$$\begin{array}{r} 123 \text{ r } 2 \\ 6 \overline{) 763} \end{array}$$