

Year 6 Numeracy

Here are a few strategies that children will be using within numeracy sessions this year. They are taught all the strategies and then encouraged to choose the strategy that they find the easiest. This will change depending upon the context of the problem that they are tackling.

ADDITION

Algorithm

$$\begin{array}{r} 346 \\ +269 \\ \hline 615 \\ 11 \end{array}$$

Column method

$$\begin{array}{r} 346 \\ + 269 \\ \hline 500 \text{ [300+200]} \\ 100 \text{ [60+ 40]} \\ \underline{15} \text{ [6+9]} \\ \hline 615 \end{array}$$

Mental calculation

Near doubles

$$15 + 17 \quad 15 + 15 + 2 = 32$$

Partitioning

$$67 + 58 \quad 67 + 3 + 50 + 5 = 125$$

SUBTRACTION

Algorithm

$$\begin{array}{r} 71 \\ 986 \\ -449 \\ \hline 537 \end{array}$$

Number line

$$1000 - 458 =$$


$$458 \quad 460 \quad 500 \quad 1000$$

$$2 + 40 + 500 = 542$$

Mental calculation

Adding on

$$56 - 27$$

$$27 + 3 = 30$$

$$30 + 26 = 56 \quad 26 + 3 = 29$$

MULTIPLICATION

Algorithm

$$\begin{array}{r} 23 \\ 345 \\ \times 6 \\ \hline 2070 \end{array}$$

Grid Method

$$23 \times 17$$

x	20	3	
10	200	30	230
7	140	21	+161
			<u>391</u>

DIVISION

Mental calculation

Inverse multiplication
 $35 \div 7 = 5$ [$5 \times 7 = 35$]

$35 \div 6 = 5r5$ [$5 \times 6 = 30$]
 $[35 - 30 = 5]$

Long Division

$$\begin{array}{r} 17r4 \\ 7 \overline{)123} \\ \underline{70} \text{ [10x7]} \\ 53 \\ \underline{49} \text{ [7x7]} \\ 4 \end{array}$$

Short Division

$$\begin{array}{r} 41.3 \\ 3 \overline{)124.10} \end{array}$$