

Year 3 Written Methods of Calculation

ADDITION

Written method used in addition calculations in Year 3 are outlined below.

Partitioning Method

$$79 + 45 =$$

(70 + 9 + 40 + 5 =) - may be included

$$70 + 40 + 9 + 5 =$$

$$110 + 14 = 124$$

$$83 + 42 =$$

$$80 + 40 = 120$$

$$3 + 2 = 5$$

$$120 + 5 = 125$$

Moving on to Expanded Partitioning Method

$$48 + 36 =$$

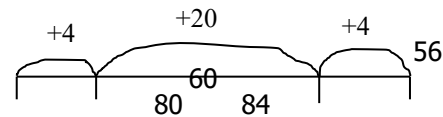
$$\begin{array}{r} 40 + 8 \\ + 30 + 6 \\ \hline 70 + 14 = 84 \end{array}$$

SUBTRACTION

Written method used in subtraction calculations in Year 3 are outlined below.

Complimentary Addition Using empty numberlines

$$84 - 56 =$$



$$84 - 56 = 28$$

Moving on to Expanded Partitioning Method

$$87 - 34 =$$

$$\begin{array}{r} 80 + 7 \\ - 30 + 4 \\ \hline 50 + 3 \end{array}$$

MULTIPLICATION

Written method used in multiplication calculations in Year 3 are outlined below.

Times Tables

Children are encouraged to use their times table facts to help them answer questions.

They should know their times tables up to 12 X 10

Children are also taught to multiply by 10 using zero as a place holder.

Partition Method

$$32 \times 3 =$$

$$\begin{array}{r} (30 \times 3) = 90 \\ (2 \times 3) = \underline{6} \\ \hline 96 \end{array}$$

DIVISION

Written method used in division calculations in Year 3 are outlined below.

Times Tables

Children will be encouraged to use their times table facts.

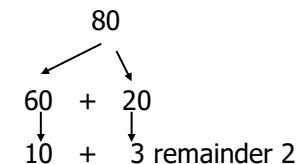
- $36 \div 6$ - How many groups of 6 are there in 36? (Grouping)
- $36 \div 6$ - How many things will each of the 6 people get? (Sharing)

- $38 \div 6 = 6$ with 2 remainder
How many 6's (counting on) and how many left over?

Partitioning the Dividend Method Early Chunking

$80 \div 6$ lies between $60 \div 6 = 10$ and $120 \div 6 = 20$

Partition the dividend into multiples of the divisor.



Answer: 13 r 2