

# Written methods in Division

**Stage 1:** Children will understand equal groups and share items out in play and problem solving. They will count in 2s and 10s and later in 5s.

**Stage 2:** Children will develop their understanding of division and use jottings to support calculation

**Sharing equally**

6 sweets shared between 2 people, how many do they each get?



**Grouping or repeated subtraction:**

There are 6 sweets. How many people can have 2 sweets each?

OO / OO / OO

**Repeated addition using a number line or bead bar**

+3 +3 +3 +3      12 ÷ 3 = 4



1 2 3 4 5 6 7 8 9 10 11 12

**Using symbols to stand for unknown numbers to complete equations using inverse operations**

£ ÷ 2 = 4      20 ÷ r = 4      £ ÷ r = 4

**Stage 3:**

**Repeated addition using a number line**

Children will use an empty number line to support their calculation.

+4 +4 +4 +4 +4 +4      24 ÷ 4 = 6



0 4 8 12 16 20 24

Children should also move onto calculations involving remainders.

+4 +4 +4 +4 +4 +4 +1      25 ÷ 4 = 6 r1



0 4 8 12 16 20 24 25

**Stage 4:** Children will develop their use of repeated Addition to be able to subtract multiples of the divisor.

+60 (20x3) +3 +3 +3 +3 +2      74 ÷ 3 = 24 r2

0 60 63 66 69 72 74

This method will be used for calculations with or without a remainder.

Then onto the vertical method:

**Short division TU ÷ U**

$$\begin{array}{r} 7 \ 2 \\ + \ 3 \ 0 \ 10x \\ 4 \ 2 \\ + \ 3 \ 0 \ 10x \\ 1 \ 2 \\ - + \ 1 \ 2 \ 4x \\ 0 \\ = 24 \end{array}$$

Any remainders should be shown as integers, i.e. 14 remainder 2 or 14 r 2.

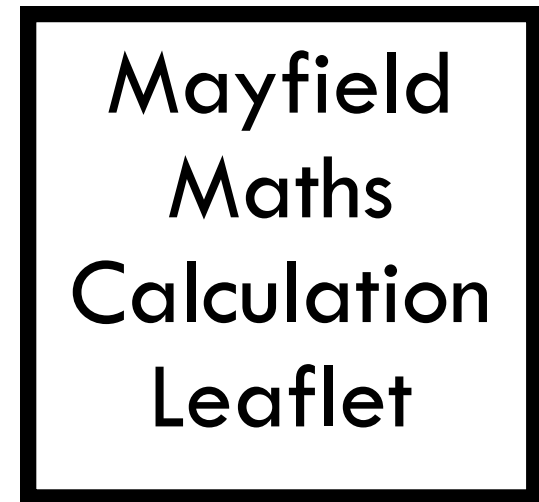
Children need to be able to decide what to do after division and round up or down accordingly. They should make sensible decisions about rounding up or down after division.

**Stage 5:** Children will continue to use written methods to solve short division TU ÷ U. Children can start to subtract larger multiples of the divisor, e.g. 30x

**Stage 6:** Children will continue to use written methods to solve short division TU ÷ U and HTU ÷ U. Any remainders should be shown as fractions, i.e. if the children were dividing 32 by 10, the answer should be shown as 3 <sup>2</sup>/<sub>10</sub> which could then be written as 3 <sup>1</sup>/<sub>5</sub> in its lowest terms.

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Produced by the Maths Team—

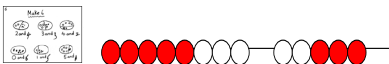
Suzy Howden, Paula Ayliffe, Lisa LeMoal  
and Jas Hill.

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## Written stages in Addition

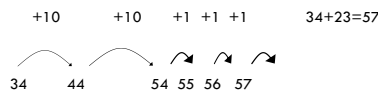
**Stage 1:** Use numberlines and practical resources to support calculation. Teachers demonstrate the use of the numberline. Children then begin to use numbered lines to support their own calculations using a numbered line to count on in ones.

Bead strings or bead bars can be used to illustrate addition including bridging through ten by counting on 2 then counting on 3.

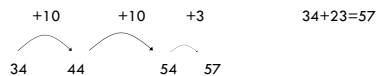


**Stage 2:** Children will begin to use 'empty number lines' themselves starting with the larger number and counting on.

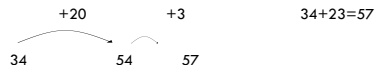
**First counting on in tens and ones.**



**Then helping children to become more efficient by adding the units in one jump (by using the known fact 4 + 3 = 7).**

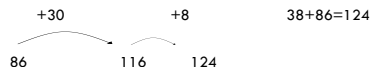


**\*Followed by adding the tens in one jump and the units in one jump.**

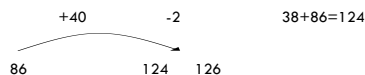


**Stage 3:** Children will continue to use empty number lines with increasingly large numbers, including compensation where appropriate.

**Count on from the largest number irrespective of the order of the calculation.**



**Compensation**



Children will begin to use informal pencil and paper methods (jottings) to support, record and explain partial mental methods building on existing mental strategies.

**Partitioning** – record mental methods using partitioning .

$$47 + 76 = 40 + 70 + 7 + 6 = 110 + 13 = 123$$

Leading to

$$40 + 7$$

$$\underline{70 + 6}$$

$$110 + 13 = 123$$

**to add the least significant**

**Adding the most significant digits first, then moving**

|  |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |
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| $\begin{array}{r} 67 \\ + 24 \\ \hline 80 \end{array}$ | $\begin{array}{r} 267 \\ + 85 \\ \hline 12 \end{array}$ | $\begin{array}{r} 12 \\ + 7+5 \\ \hline 14 \end{array}$ | $\begin{array}{r} 140 \\ + 60+80 \\ \hline 200 \end{array}$ | $\begin{array}{r} 200 \\ + 20 \\ \hline 220 \end{array}$ | $\begin{array}{r} 220 \\ + 52 \\ \hline 272 \end{array}$ | $\begin{array}{r} 272 \\ + 52 \\ \hline 324 \end{array}$ | $\begin{array}{r} 324 \\ + 52 \\ \hline 376 \end{array}$ | $\begin{array}{r} 376 \\ + 52 \\ \hline 428 \end{array}$ | $\begin{array}{r} 428 \\ + 52 \\ \hline 480 \end{array}$ | $\begin{array}{r} 480 \\ + 52 \\ \hline 532 \end{array}$ | $\begin{array}{r} 532 \\ + 52 \\ \hline 584 \end{array}$ | $\begin{array}{r} 584 \\ + 52 \\ \hline 636 \end{array}$ | $\begin{array}{r} 636 \\ + 52 \\ \hline 688 \end{array}$ | $\begin{array}{r} 688 \\ + 52 \\ \hline 740 \end{array}$ | $\begin{array}{r} 740 \\ + 52 \\ \hline 792 \end{array}$ | $\begin{array}{r} 792 \\ + 52 \\ \hline 844 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