

Albury Primary School
Calculation Policy
Division

Year Group	Method
R	See mental calculation guidance.
1	See mental calculation guidance.
2	See mental calculation guidance.
3	<p>Mental division of $TU \div U$ using partitioning. See mental calculation guidance.</p> <p>e.g. $81 \div 3 = (60 + 21) \div 3$ $= (60 \div 3) + (21 \div 3)$ $= 20 + 7$ $= 27$</p>
4	<p>Short division $TU \div U$.</p> <p>e.g. $81 \div 3$</p> $\begin{array}{r} 20 + 7 = 27 \\ 3 \overline{) 60 + 21} \end{array}$ $\begin{array}{r} 27 \\ 3 \overline{) 81} \end{array}$ <p>Long division (chunking method) can be introduced as an alternative.</p> $\begin{array}{r} 32 \text{ r } 4 \\ 6 \overline{) 196} \\ \underline{- 60} \quad (6 \times 10) \\ 136 \\ \underline{- 60} \quad (6 \times 10) \\ 76 \\ \underline{- 60} \quad (6 \times 10) \\ 16 \\ \underline{- 12} \quad (6 \times 2) \\ 4 \end{array}$ <p>Ensure that the language of multiples of 10 is reinforced.</p>

Using appropriate methods to solve $\text{HTU} \div \text{U}$, $\text{HTU} \div \text{TU}$ (as year 3 and 4).

$$\begin{aligned} \text{e.g. } 291 \div 3 &= (270 + 21) \div 3 \\ &= (270 \div 3) + (21 \div 3) \\ &= 90 + 7 \\ &= 97 \end{aligned}$$

$$3 \overline{) \begin{array}{r} 90 + 7 \\ 270 + 21 \end{array}}$$

$$3 \overline{) \begin{array}{r} 97 \\ 291 \end{array}}$$

Consolidate long division (chunking method) for $\text{HTU} \div \text{U}$.

Then introduce long division (chunking method) for $\text{HTU} \div \text{TU}$.

e.g. $560 \div 24$

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$$\begin{array}{r} 24 \overline{) \begin{array}{r} 560 \\ - 240 \quad (24 \times 10) \\ \hline 320 \\ - 240 \quad (24 \times 10) \\ \hline 80 \\ - 72 \quad (24 \times 3) \\ \hline 8 \end{array}} \\ 23 \text{ r } 8 \end{array}$$

Encourage to become more compact for better efficiency.

$$\begin{array}{r} 24 \overline{) \begin{array}{r} 560 \\ - 480 \quad (24 \times 20) \\ \hline 80 \\ - 72 \quad (24 \times 3) \\ \hline 8 \end{array}} \\ 23 \text{ r } 8 \end{array}$$

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Consolidate work from year 5.