

|  | The Empty Number Line: <br> Partitioning and bridging through 10. <br> The steps in addition often bridge through a multiple of 10 e.g. <br> Children should be able to partition the 7 to relate adding the 2 and then the 5 . <br> Add a near multiple of 10 to a two-digit number <br> Secure mental methods by using a number line to model the method. e.g. $35+19$ is the same as $35+20-1$. <br> Children need to be secure adding multiples of 10 to any two-digit number including those that are not multiples of 10 . $48+36=84$ <br> Pencil and paper procedures $83+42=125$ <br> either <br> or <br> 1. Vertical expansion $\begin{array}{r} 83 \\ +-\quad 42 \\ -5 \\ \hline 120 \\ \hline 125 \end{array}$ <br> 2. Horizontal expansion $\begin{gathered} 80+3 \\ +\frac{40+2}{120+5}=125 \end{gathered}$ |
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