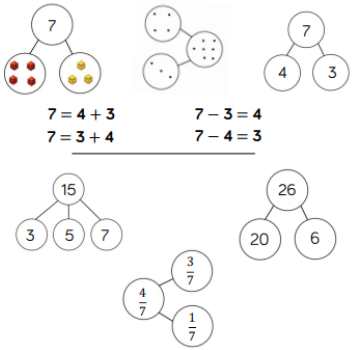
Four Operations What's What

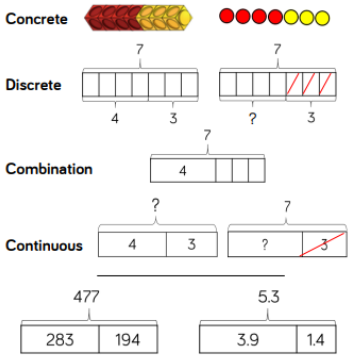
At Kiwi Primary School, we use the following models and images to support the teaching of Addition, Subtraction, Multiplication and Division. For further details, see the Kiwi School Calculation Policy for how this is broken down into each year group.

Addition and Subtraction Models

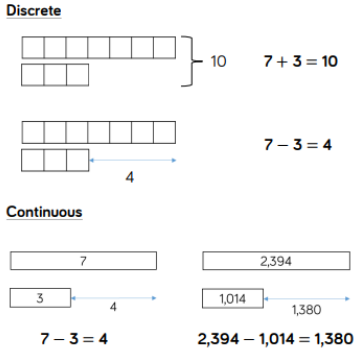
Part-Whole Model



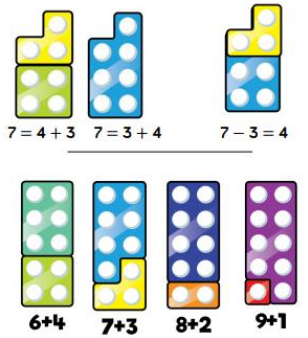
Bar Model (single)



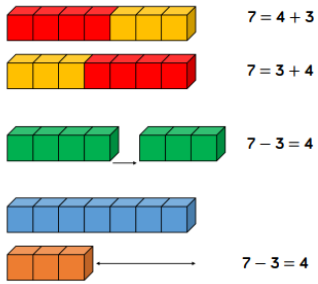
Bar Model (multiple)



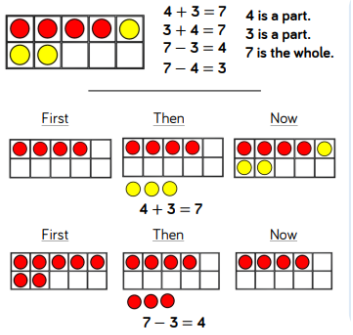
Number Shapes



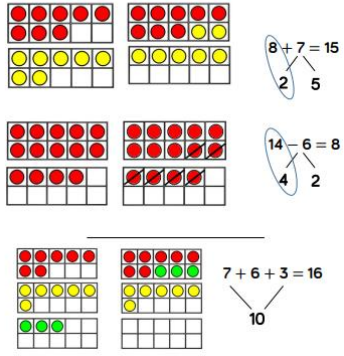
Cubes



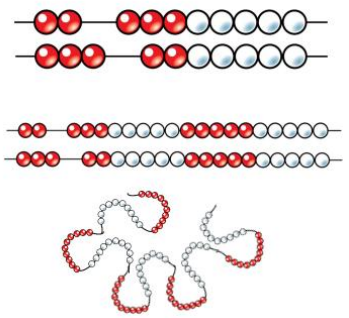
Ten Frames (within 10)



Ten Frames (within 20)

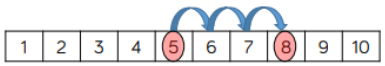


Bead Strings

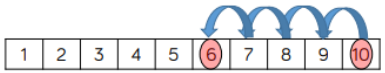


Number Tracks

5 + 3 = 8



10 − 4 = 6



8 + 7 = 15

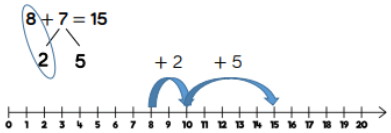


Number Lines (labelled)

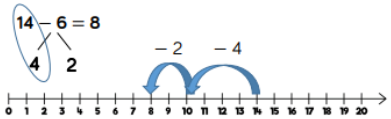
5 + 3 = 8



8 + 7 = 15

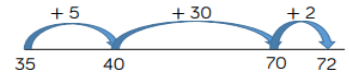


14 − 6 = 8

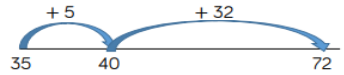


Number Lines (blank)

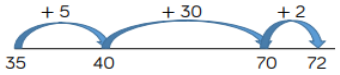
35 + 37 = 72



35 + 37 = 72

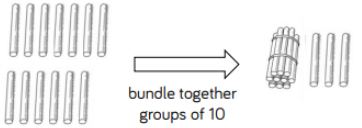


72 − 35 = 37

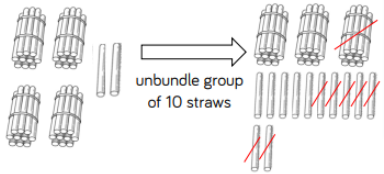


Straws

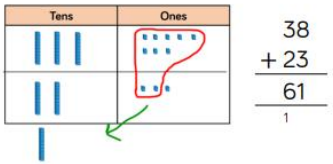
7 + 6 = 13



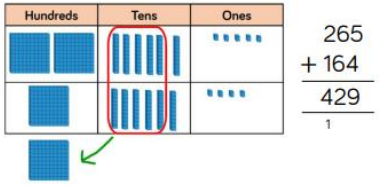
42 − 17 = 25



Base 10/Dienes (addition)

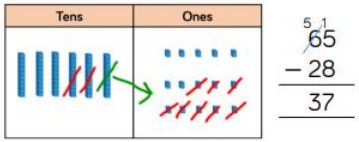


$$\begin{array}{r} 38 \\ +\ 23 \\ \hline 61 \\ {\scriptstyle 1} \end{array}$$

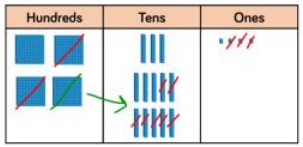


$$\begin{array}{r} 265 \\ +\ 164 \\ \hline 429 \\ {\scriptstyle 1} \end{array}$$

Base 10/Dienes (subtraction)



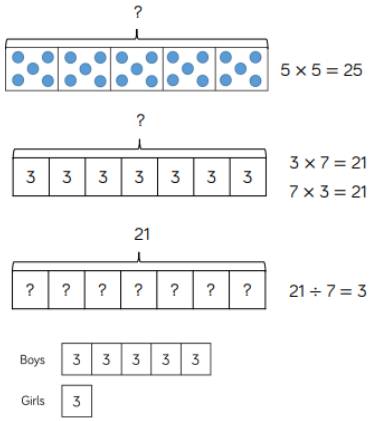
$$\begin{array}{r} {\scriptstyle 5\ 1} \\ 6\not{5} \\ -\ 28 \\ \hline 37 \end{array}$$



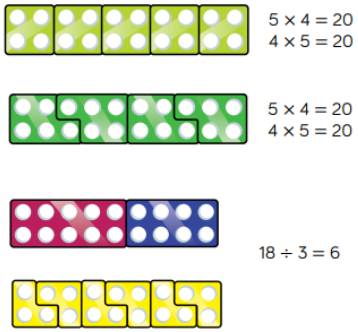
$$\begin{array}{r} {\scriptstyle 3\ 1} \\ 4\not{3}5 \\ -\ 273 \\ \hline 162 \end{array}$$

Multiplication and Division

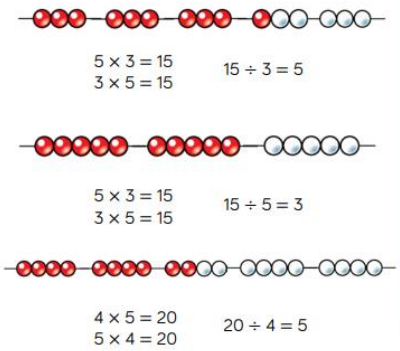
Bar Model



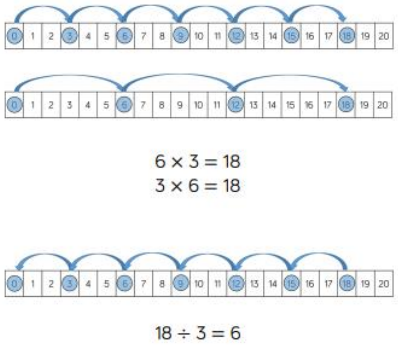
Number Shapes



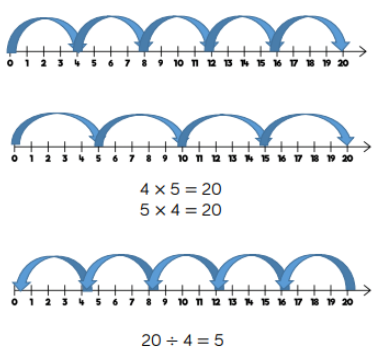
Bead Strings



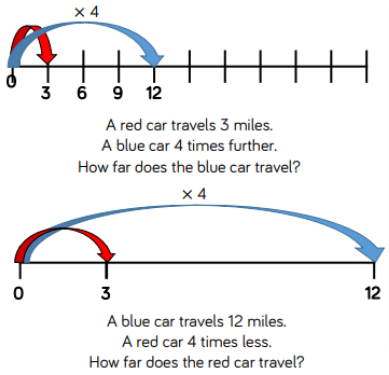
Number Tracks



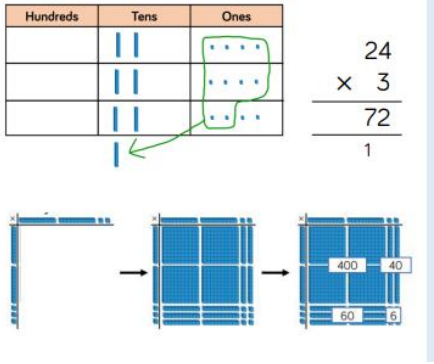
Number Lines (labelled)



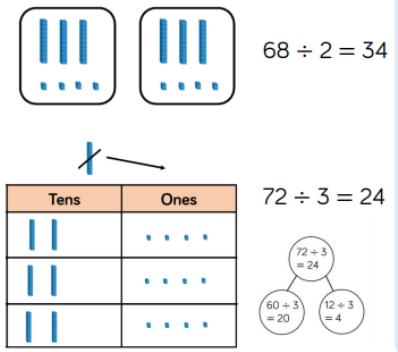
Number Lines (blank)



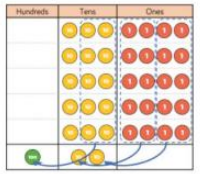
Base 10/Dienes (multiplicatior



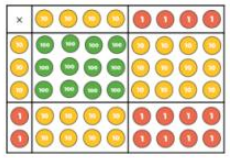
Base 10/Dienes (division)



Place Value Counters (multip

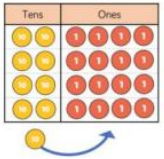


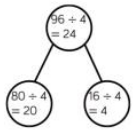
$$\begin{array}{r} 34 \\ \times\ 5 \\ \hline 170 \\ \hline 1\ 2 \end{array}$$

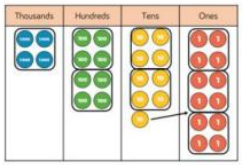


$$\begin{array}{r} 44 \\ \times\ 32 \\ \hline 8 \\ 80 \\ 120 \\ +\ 1200 \\ \hline 1408 \\ \hline 1 \end{array}$$

Place Value Counters (divisior







$$\begin{array}{r} 1223 \\ 4\overline{)\,4892} \\ \hline 1 \end{array}$$