



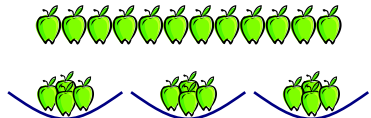
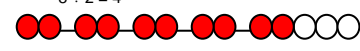
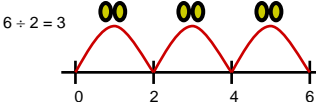
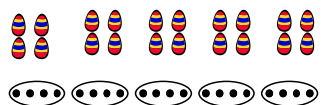
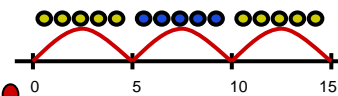
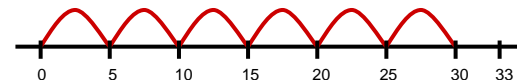
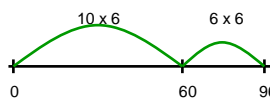


| | | | | | | | | |
|----|--|--|--|---|--|---|---|--|
| YR | Share objects into equal groups and count how many in each group ref: Overview of learning 10 | Practical / recorded using ICT (eg digital photos / pictures on IWB) | Pictures / Objects 6 cakes shared between 2  6 cakes put into groups of 2  | | Symbols 6 cakes shared between 2  6 cakes put into groups of 2  | | (see recording) | |
| Y1 | Solve (practical) problems that involve sharing into equal groups | Practical / recorded using ICT | Pictures / Symbols How many apples in each bowl if I share 12 apples between 3 bowls?  | | Number tracks / Number line (modelled using bead strings) $8 \div 2 = 4$  $6 \div 2 = 3$  | | (see recording) | |
| Y2 | Division as sharing and grouping (including remainders) $TO \div O$ (where divisor is 2, 5 or 10) | Pictures / Symbols Four eggs fit in a box. How many boxes would you need to pack 20 eggs?  | Number lines / Arrays $15 \div 5$  [ref Grouping ITP] | | Partitioning $28 \div 2$ $20 \div 2 = 10$ $8 \div 2 = 4$ | Derive / recall \div facts for 2, 5 and 10 tables Derive / recall halves of even numbers to 40 | $TO \div 2$ | |
| Y3 | $TO \div O$ (where divisor is 2, 3, 4, 5, 6 or 10) Round remainders up / down, depending on the context | Number lines (start from zero) $33 \div 5 = 6 \text{ r}3$  | | Grouping (vertical layout) – see method for Y4 below (but to be used for divisors in Y3 of 2, 3, 4, 5, 6 or 10.) | | Derive / recall \div facts for 2, 3, 4, 5, 6 and 10 tables | $TO / HTO \div 2$ | |
| Y4 | Record, support and explain: $TO \div O$ (eg $98 \div 6$) | Number lines (start from zero) $96 \div 6 = 16$  | | Grouping (vertical layout) $96 \div 7$ $\begin{array}{r} 96 \\ - 70 \quad (10 \times 7) \\ \hline 26 \\ - 21 \quad (3 \times 7) \\ \hline 5 \end{array}$ $= 13 \text{ r}5$ | | Derive / recall \div facts up to the 10 times table | Numbers up to $1000 \div 10 / 100$ (whole number answers and understand the effect) Halves of TO / HTO numbers and multiples of $10 / 100$ | |
| Y5 | Refine and use efficient methods: $HTO \div O$ | Grouping (expanded) $\begin{array}{r} 6 \overline{)196} \\ - 60 \quad (10 \times 6) \\ \hline 136 \\ - 60 \quad (10 \times 6) \\ \hline 76 \\ - 60 \quad (10 \times 6) \\ \hline 16 \\ - 12 \quad (2 \times 6) \\ \hline 4 \end{array}$ $= 32 \text{ r}4$ 'Empty' number line (start from 0) may be used to record calculation strategy | | Grouping (efficient) $346 \div 8$ (estimate $400 \div 8 = 50$) $\begin{array}{r} 8 \overline{)346} \\ - 320 \quad (40 \times 8) \\ \hline 26 \\ - 24 \quad (3 \times 8) \\ \hline 2 \end{array}$ $= 43 \text{ r}2$ | 'Short' division $291 \div 3$ (estimate: $270 \div 3 = 90$) $\begin{array}{r} 90 + 7 \\ 3 \overline{)290 + 1} = 3 \overline{)270 + 21} \\ \hline 97 \\ 3 \overline{)291} \end{array}$ This is then shortened to: $\begin{array}{r} 97 \\ 3 \overline{)291} \end{array}$ | Recall quickly \div facts up to 10 times table | Divide using factors of the divisor (eg $\div 8$ by $\div 2$ and then $\div 4$) Divide numbers by $10 / 100 / 1000$ (describe the effect) Halves of $0.1 / 0.1\text{th}$ | |
| Y6 | Use efficient methods: Integer $\div O$ (eg $123 \div 7$) Decimal $\div O$ (eg $27.6 \div 8$) $HTO \div TO$ | Grouping (efficient) $25.6 \div 8 =$ (estimate $24 \div 8 = 3$) $\begin{array}{r} 8 \overline{)25.6} \\ - 24.0 \quad (3.0 \times 8) \\ \hline 1.6 \\ - 1.6 \quad (0.2 \times 8) \\ \hline 0 \end{array}$ $= 3.2$ 'Empty' number line may still be used | | 'Short' division $43.4 \div 7$ (estimate: $42 \div 7 = 6$) $\begin{array}{r} 6.2 \\ 7 \overline{)43.4} \end{array}$ | Partitioning $43.4 \div 7 = 6.2$ $6 \times 7 = 42$ $0.2 \times 7 = 1.4$ (43.4) | 'Long' division $560 \div 24$ (estimate: $550 \div 25 = 22$) $\begin{array}{r} 23 \\ 24 \overline{)560} \\ - 480 \\ \hline 80 \\ - 72 \\ \hline 8 \end{array}$ Answer: 23 R 8 | Derive \div facts involving multiples of $10 / 100$ (eg $240 \div 30$) and decimals (eg $4.8 \div 6$) | Divide using factors of the divisor (eg $\div 15$ by $\div 5$ and then $\div 3$) $TO \div O$ $O.t \div O$ Integer $\div 1000 / 100 / 10$ |

Estimate first

