

### Stage 1

Counting in twos. Using objects to group and count in twos. Number rhymes in twos such as 2,4,6,8. Hopping in twos.

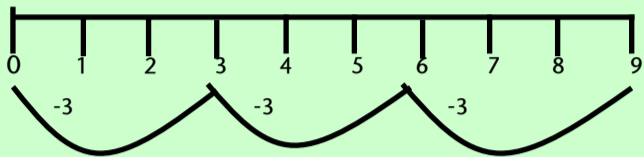
### Stage 2

Counting on or back in 2, 5 and 10. Grouping practical objects or pictures in 2s, 5s and 10s. Sharing objects between groups.

### Stage 3

Understanding division as repeated subtraction using number lines and hundred squares to support.

E.g.  $9 - 3 - 3 = 3$



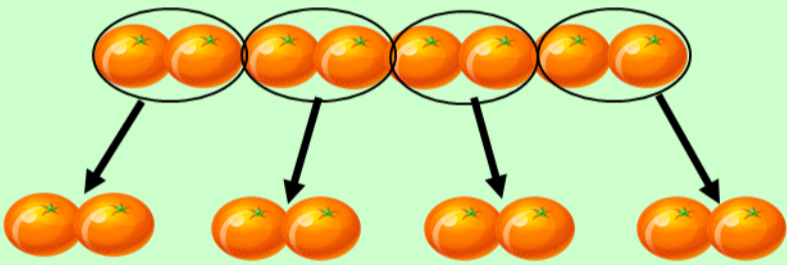
Grouping of objects:

E.g. 8 objects grouped into groups of 4 = 2 groups of 4



Sharing objects between groups:

E.g. 8 shared between 4 groups = 2 in each group

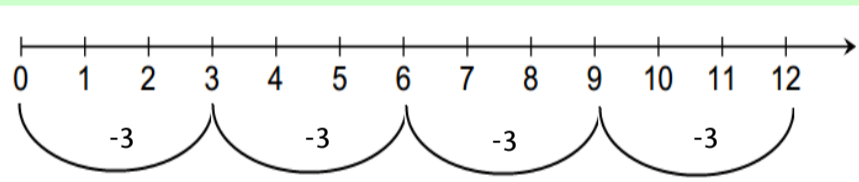


### Stage 4

Grouping by repeated subtraction using a number line.

Examples without remainder

E.g.  $12 \div 3 = 4$

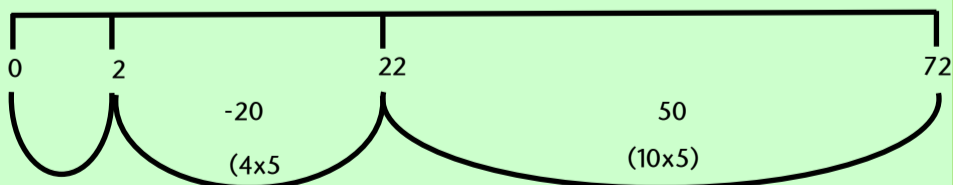


### Stage 5

Division as repeated subtraction

Examples as a remainder

E.g.  $72 \div 5 = 14 \text{ r}2$



$$\begin{array}{r} 72 \\ - 50 \quad (10 \times 5) \\ \hline 22 \\ - 20 \quad (4 \times 5) \\ \hline 2 \quad \text{Remainder} \end{array}$$

Answer = 14 r2

# Division

### Stage 6

Chunking with TU  $\div$  U

E.g.  $56 \div 3 = 18 \text{ r}2$

$$\begin{array}{r} 18 \text{ r}2 \\ 3 \overline{) 56} \\ - 30 \\ \hline 26 \\ - 15 \\ \hline 11 \\ - 9 \\ \hline 2 \end{array}$$

Diagram showing chunking: (10) x 3, (5) x 3, (3) x 3.

Answer = 18 r2

Check  $(18 \times 3) + 2 = 56$

Leading to chunking with HTU  $\div$  U

E.g.  $256 \div 7 = 36 \text{ r}4$

$$\begin{array}{r} 36 \text{ r}4 \\ 7 \overline{) 256} \\ - 70 \\ \hline 186 \\ - 140 \\ \hline 46 \\ - 42 \\ \hline 4 \end{array}$$

Diagram showing chunking: (10) x 7, (20) x 7, (6) x 7.

Answer = 36 r4

Check  $(36 \times 7) + 4 = 256$

### Stage 7

Short division

E.g.  $284 \div 6 = 47 \text{ r}2$

$$\begin{array}{r} 47 \text{ r}2 \\ 6 \overline{) 284} \\ - 12 \\ \hline 14 \\ - 12 \\ \hline 2 \end{array}$$

Remainder as a fraction

47 r2 is the same as

$$47 \frac{2}{6} \quad \text{or} \quad 47 \frac{1}{3}$$

### Stage 8

Long division

E.g.  $284 \div 15 = 18 \text{ r}14$

$$\begin{array}{r} 18 \text{ r}14 \\ 15 \overline{) 284} \\ - 15 \\ \hline 134 \\ - 120 \\ \hline 14 \end{array}$$

### Stage 9

Remainder as decimals for short division

47 r2 is the same as 47.33

$$\begin{array}{r} 47.33 \\ 6 \overline{) 284.200} \end{array}$$

Remainder as decimals for long division

E.g.  $8362 \div 24 = 348.41$

348.41 (rounded to 2 decimal places)

$$\begin{array}{r} 348.41 \\ 24 \overline{) 8362.00} \\ - 72 \\ \hline 116 \\ - 96 \\ \hline 202 \\ - 192 \\ \hline 100 \\ - 96 \\ \hline 40 \\ - 24 \\ \hline 16 \end{array}$$