Stage 1

Children are encouraged to develop a mental image of the number system in their heads to use for calculation. They should experience practical calculation opportunities involving equal groups and equal sharing.





They may develop ways of recording calculations using pictures.

A child's jotting showing halving six

spots between two sides of a ladybird.



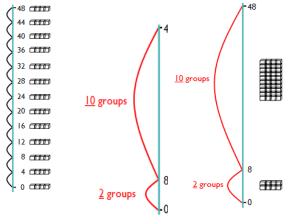
Progression in Written Division

A child's jotting

showing how they shared the apples at snack time between two groups.

Stage 4 The previous method of repeated subtraction on a number line is continued, but using a vertical number line alongside practical equipment.

The repeated subtraction is made more efficient by subtracting 'groups' of the divisor.



Stage 2

many boxes do I need?

a box)

Children explore practical contexts where they share equally and group equally. $6 \div 2 = ?$

Equal sharing (6 shared equally between 2)

6 football stickers are shared equally between 2 people, how many do they each get? Children may solve this by using a 'one for you, one for me' strategy until all of the stickers have been given out.

Equal grouping (How many groups of 2 are there in 6?)

There are 6 football stickers, how many people can have 2

Answer: 7 (the remaining 6p is not enough for another sweet)

Apples are packed into boxes of 8. There are 62 apples. How

Answer: 8 (the remaining 6 apples still need to be placed into





Children continue to use practical equipment to represent division calculations as grouping (repeated subtraction) and use jottings to support their calculation.

 $12 \div 3 = ?$ Children begin to read this calculation as, 'How many groups of 3 are there in 12?'



At this stage, children will also be introduced to division calculations that result in remainders.

 $13 \div 4 = 3$ remainder 1



Stage 5	Stage 6
43÷8	Children will initially use base 10 equipment to practically
000000000000000000000000000000000000000	complete division calculations. Teachers should select numbers carefully to ensure that children do not need to
43 ÷ 8 = 5 remainder 3	exchange. When children are confident; they will represent this in
At this stage, children also learn if the remainder should be rounded up or down e.g. 62 ÷ 8 = 7 remainder 6	their books as jottings. e.g 69 ÷ 3 =
I have 62p. Sweets are 8p each. How many can I buy?	69 ÷ 3 =

Children can then represent this as a formal short division method.

23 3 69



