| Sharing | Practical activities of sharing in class | Can we share these out fairly? <br> How many will each person get? <br> Record pictorially. |
| :--- | :--- | :--- |
|  |  | Sharing equally <br> R.g. |
|  |  | cakes are shared equally between 2 people. |
| Repeated <br> subtraction | Leading to understanding of grouping. |  |
| Halving <br> quantities to 10 | Practical work dividing a set of even <br> number objects by 2 use language of <br> halving. Count how many are now in each <br> set. | Colour half of the circles red and half <br> blue. How many blue circles are there? <br> Make number sentences about a <br> practical activity. <br> Cut foodstuffs, etc in half and notice <br> that each piece is exactly the same <br> size. |
| Halving and <br> quartering <br> shapes/ objects | How many groups or a given number can <br> we make from an amount? | How many groups of 4 daffodil bulbs <br> can we plant with 12 bulbs? <br> How can we share these stickers <br> fairly? <br> Record pictorially . |


|  |  |  |
| :---: | :---: | :---: |
| Recognise symbols for division | Understand symbol as sharing equally and as grouping. Say how many groups of 2 can we make from 12? Or 12 shared between 2 | Use sign in number sentences $12 \div 2=6$ |
| Patterns of repeated subtraction | Take away equal amounts and learn the patterns. 10,8,6,4,2,0 <br> Count forwards and backwards in equal intervals. | Practical work which will lead on to written patterns and learning patterns Fill in missing numbers in a sequence. |
| How many groups in an amount? | Use apparatus such as a bead bar to understand how many groups of 3 in 12? Or 12 divided between 4. | $0^{3}-0^{3} 0^{3} 0-$ |
|  | How many 2 tiles can we fit on the 6 tile? |  |
| Division on a number line | Understand $\div$ as grouping into constant amounts. <br> How many groups of 3 can I make from 12? | $12 \div 3=4$ |
| Know tables and their relationship to division | Use arrays to show that division is the inverse of multiplication | $\begin{aligned} & \hline \\ & \hline \\ & \hline \end{aligned} \left\lvert\, \begin{array}{l\|l\|l\|} \hline & & \\ \hline \end{array}\right.$ |
| Children should be able to utilise their | This can be part of mental maths sessions or as starters and can be adjusted | If I know $3 \times 7=21$, what else do I know? $30 \times 7=210$ |

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| Continue to use manipulatives and arrays to reinforce understanding of what is happening. |  |  |
| :---: | :---: | :---: |
| Mental methods of division | Using known number facts and fractions of amounts. | Eg Use dividing by 10 then halving to divide by 5 . <br> Halve twice to divide by 4 |
| Using tables facts | Derive and recall quickly division facts for all tables up to $12 \times 12$ |  |
| Use rules of divisibility | These are interesting to investigate. | Eg If last number is even divisible by 2 . <br> If sum of digits is divisible by 3 the number is in 3 times table <br> Ending in 5 or 0 divisible by 5 <br> The sum of the digits add to nine divisible by 9 |

## Dividing by 10 or 100

Knowing that the effect of dividing by 10 is a shift in the digits one place to the right.
Knowing that the effect of dividing by 100 is a shift in the digits two places to the right.

Divide TU by u
Using standard method Use manipulatives to illustrate how to use short division..place value counters are useful at this stage.


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|  | that decimal points line up under each other. |  |
| :---: | :---: | :---: |
| HTU divided by TU using short division |  |  |
|  | Halve decimal numbers up to 2 places using partitioning. |  |
| Divide Th HTU by Tu | Use short division for this or mental methods as appropriate to numbers involved | When dividing by TU it is useful to work out a multiplication table of that divisor. |
| Long division | Use this method of long division if appropriate for numbers being used. | $\begin{array}{llllll}  & & & 2 & 8 & 8 \\ 1 & 5 & 4 & 3 & 2 & \\ & & 3 & 0 & \downarrow & \\ & & & & \\ & & 1 & 3 & 2 & \\ & & 1 & 2 & 0 & \downarrow \\ & & & 1 & 2 & 0 \\ & & & 1 & 2 & 0 \\ \hline & & & & 0 \end{array}$ |
| Quotient Dividend | when dividing 6 by 3 , the quotient is 2 , while 6 is called the dividend, and 3 the divisor. | $\begin{aligned} & \mathbf{6} \div 3=2 \\ & \text { dividend } \div \text { divisor }=\text { quotient } . \end{aligned}$ |


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