|  | Objective | Concrete | Pictorial | Abstract |
| :---: | :---: | :---: | :---: | :---: |
|  | Sharing objects into equal groups <br> Focus on terminology of equal groups. | Use a range of objects/resources to share e.g. | Represent the sharing pictorially. | $6 \div 2=3$ <br> 6 shared into two equal groups is 3. |
| $\begin{aligned} & \underset{\sim}{1} \\ & \underset{\sim}{\sim} \\ & \underset{\sim}{2} \end{aligned}$ | Division as grouping | Divide quantities into equal groups. Use cubes, counters, objects or place value counters to aid understanding. | Use a number line to show jumps in groups. The number of jumps equals the number of groups. <br> Think of the bar as a whole. Split it into the number of groups you are dividing by and work out how many would be within each group. $\square$ <br> 20 <br> $20 \div 5=?$ <br> $5 \times ?=20$ | $\begin{aligned} & 20 \div 5=4 \\ & 5 \times 4=20 \end{aligned}$ |


| $\begin{aligned} & N \\ & \frac{V}{\mathbb{D}} \\ & \end{aligned}$ | Division within arrays - linking to multiplication | Children link division to multiplication by creating an array and thinking about the number sentences that can be created. $\begin{array}{\|rr} \hline \text { E.g. } 15 \div 3=5 & 5 \times 3=15 \\ 15 \div 5=3 & 3 \times 5=15 \\ \hline \end{array}$ | Children draw an array and use lines to split the array into groups to make multiplication and division sentences. | Find the inverse of multiplication and division sentences by creating four linking number sentences. $\begin{aligned} & 7 \times 4=28 \\ & 4 \times 7=28 \\ & 28 \div 7=4 \\ & 28 \div 4=7 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: |
|  | Repeated subtraction | Children use repeated subtraction using base 10 above a ruler/number lines. $6 \div 2=$ | Children represent repeated subtraction pictorially. | Abstract number line to represent the equal groups that have been subtracted. |
|  |  |  |  |  |




| $\begin{aligned} & 1 \\ & \frac{1}{\pi} \\ & \text { U } \end{aligned}$ | Short division division of up to 4 digit numbers by 1 digit numbers (no remainders). | Children use place value counters to group. $615 \div 5=$ <br> 1. Make 615 with place value counters. <br> 2. How many equal groups of 5 hundreds can you make with 6 hundred counters? <br> 3. Exchange 1 hundred for 10 tens. <br> 4. How many equal groups of 5 tens can you make with 11 ten counters? <br> 5. Exchange 1 ten for 10 ones. <br> 6. How many equal groups of 5 ones can you make with 15 ones? | Children represent the place value counters pictorially. | $5 \longdiv { 6 ^ { 1 } 1 ^ { 1 } 5 }$ |
| :---: | :---: | :---: | :---: | :---: |





## Conceptual variation; different ways to ask children to solve $615 \div 5$



Key Vocabulary: divide, division, divide by, share, sharing, equal group, half.

