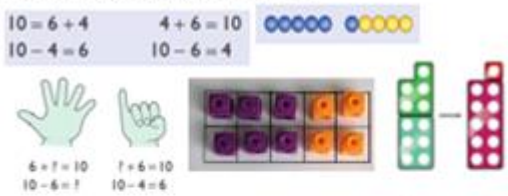
Year 1 calculation guidance

+ Addition +

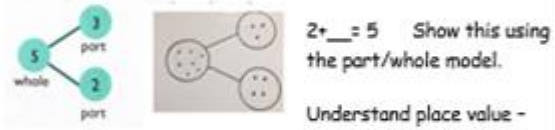
More Sum Altogether Add Plus Total

Methods from reception to be used in Year 1: Pictures, tens frames, cubes and concrete resources to add two numbers together as a group or in a bar. See Reception calculation guidance.

Teach all the number bonds up to and including 10 and the related 'Fact Family' for each fact.



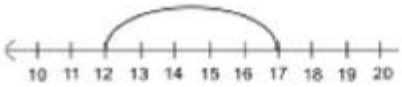
Use concrete objects to combine groups to add and solve missing number problems.



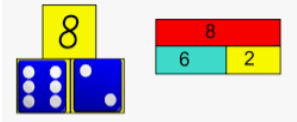
2+__= 5 Show this using the part/whole model.

Understand place value - can partition numbers and recombine numbers

Usually start with the biggest number (if counting on)
12 + 5 = 17



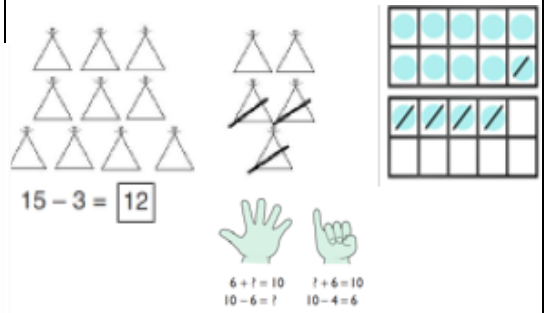
Represent additions and subtractions using bar models



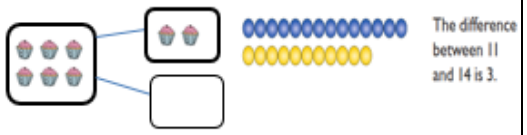
- Subtraction -

minus Subtract take away less than difference between

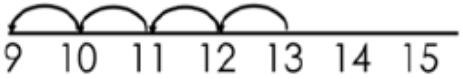
Methods from reception to be used in Year 1: Use physical objects, counters, cubes etc to show how objects can be taken away. See Reception calculation guidance.



Understand that subtraction can be seen as taking away and finding the difference. Use the part-whole model to take away.



First with concrete apparatus, then number line or 100 square, then mentally. Count back on a number line or number track when secure with concrete apparatus.

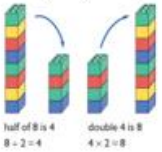


× Multiplication ×

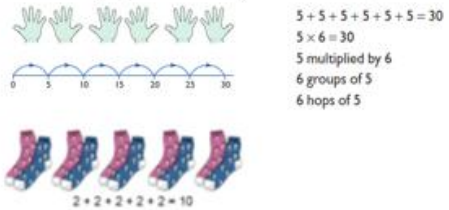
Multiply times lots of groups of multiple of product

Methods from reception to be used in Year 1: double numbers to 10. Use concrete apparatus to show how to double a number. See Reception calculation guidance.

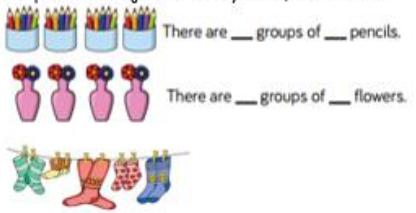
Recall doubles to 10. Use this knowledge to support halving and doubling larger numbers.



Understand multiplication as repeated addition.

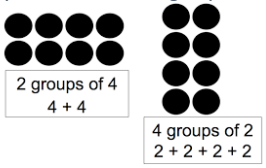


Group sets of objects reliably in 2s, 5s and 10s.



Recognise number sequences e.g. 2s, 5s and 10s.

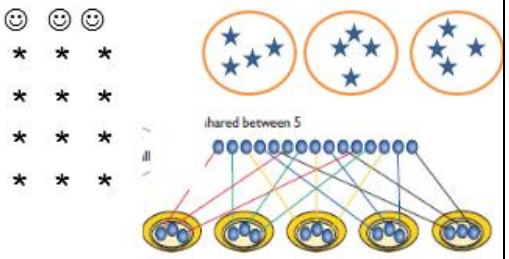
Represent numbers, groups and sets as arrays.



÷ Division ÷

Share equally group equally divide remainder factor

Understand division as sharing equally into groups. Share into groups using concrete apparatus then move to pictorial representations.



Finding half and quarter using the same methods.