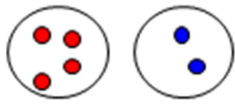


Number - addition and subtraction

Number - multiplication and division

add two single digit numbers
aggregation
Counters on plates



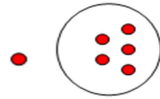
1, 2, 3, 4, 5, 6.

Bead strings or bead bars can be used to illustrate addition including bridging ten by counting on 2 then 3.

$5 + 3 = 8$



subtract two single digit numbers
reduction
Counters on plates



6 take away 1 leaves
1, 2, 3, 4, 5.

Cross out drawn objects to represent what has been taken away:

3 take away 2 is 1



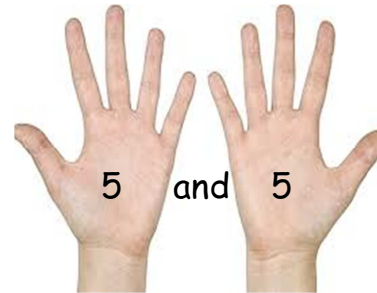
Start with 3 ... 2, 1.

solve problems including doubling

Practically double a group of objects to find double of a number by combining then counting the two groups:



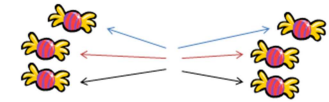
Double 4 is 8.



is 10

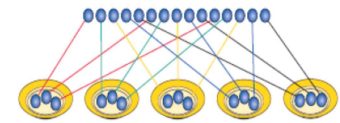
solve problems including halving and sharing

Sharing objects



One for you. One for me...
Is it fair? How many do we each have?

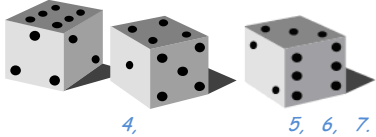
15 shared between 5 is 3.



Count on to find the answer
augmentation

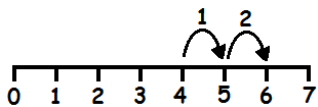
Practically with objects, fingers etc.
 $5 + 2$ "Put 5 in your head, 6, 7."

Dice... $4 + 3 = 7$



On a prepared number line (start with the bigger number)...

$2 + 4 = 6$



Count on or back to find the answer

Practically, for example:

Group objects on a table then cover some to visualize the calculation:

2 less than 4 is 2



Start with 2 ... 3, 4.

Coins



I had 10 pennies. I spent 4 pence. How much do I have left? Start with 10... 9, 8, 7, 6.

understand and use vocabulary for addition

add, more, and, make, sum, total, altogether, score, double, one more, two more, ten more... how many more to make...? how many more is... than...?

is the same as

understand and use vocabulary for subtraction

take (away), leave, how many are left/left over? how many have gone? one less, two less... ten less... how many fewer is... than...? difference between

is the same as

understand and use vocabulary for multiplication

count on (from, to), count back (from, to), count in ones, twos... tens...

is the same as

understand and use vocabulary for division

half, halve, count out, share out, left, left over

is the same as