

The recommended manipulatives (physical resources) for subtracting 1- or 2-digit numbers to 20 are:

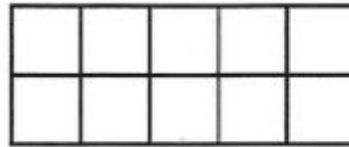
- Counters



- Cubes



- Ten frames



- Numicon



- Real life objects



The recommended manipulatives (physical resources) for adding 1- or 2-digit numbers to 20 are:

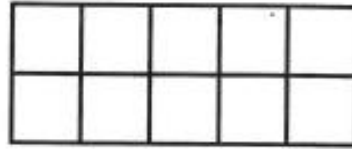
- Counters



- Cubes



- Ten frames



- Numicon

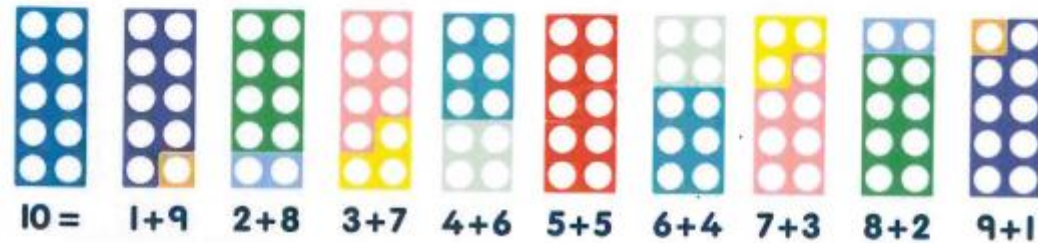


- Real life objects



Key Vocabulary

Number bonds – a pair of numbers that add up to make another number.



Sum – the total of two or more numbers added together.

Addition:

$$8 + 3 = 11$$

Addend Addend Sum or Total

Addend – a number that is added to another.

The recommended manipulatives (physical resources) for multiplication and division are:

- Counters



- Cubes



- Numicon

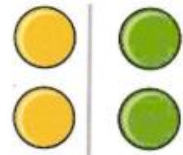


- Real life objects



Key Vocabulary

Arrays – an arrangement of objects/pictures in rows and columns.

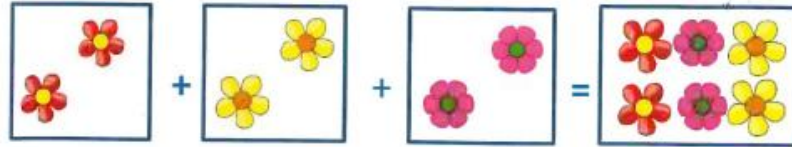


$$2 + 2 = 4$$



$$2 + 2 + 2 = 6$$

Repeated addition – to add equal groups or the same number over and over



$$2 + 2 + 2 = 6$$

$$3 \text{ groups of } 2 = 6$$

$$3 \times 2 = 6$$

Key Vocabulary

Difference – the result of subtraction – finding the distance between two numbers.

Subtrahend – the number that is subtracted

$$\begin{array}{ccccc} \text{minuend} & & \text{subtrahend} & & \text{difference} \\ \downarrow & & \downarrow & & \downarrow \\ 13 & - & 4 & = & 9 \\ & \uparrow & & \uparrow & \\ & \text{subtraction sign} & & \text{equals} & \end{array}$$

Partition – to split into smaller parts.

