

# YEAR 6

# Addition

Vocabulary: sum, total, parts and whole, plus, add, altogether, more than; addend + addend = sum/total (see previous year groups)

## Concrete

Add larger whole numbers.

$$6,537,206 + 1,374,023 = 7\,911\,229$$

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
7	9	1	1	2	2	9

No place value counters for larger numbers. Revisit previous years' addition calculation policies.

## Pictorial

Add larger whole numbers

Number lines from previous year groups are used if needed.

## Abstract

Add larger whole numbers (exchanging at different points)

$$\begin{array}{r}
 \text{M HTh TTh Th H T O} \\
 6\ 5\ 3\ 7\ 2\ 0\ 6 \\
 +\ 1\ 3\ 7\ 4\ 0\ 2\ 3 \\
 \hline
 7\ 9\ 1\ 1\ 2\ 2\ 9
 \end{array}$$

Adding decimals up to 3 decimal places.

(including decimals with different numbers of decimal places)

Ones	Tenths	Hundredths	Thousandths

Adding decimals up to 3 decimal places.

(including decimals with different numbers of decimal places)

See previous addition policies if needed for jottings using a number line.

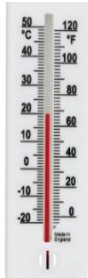
Adding decimals up to 3 decimal places

(including decimals with different numbers of decimal places)

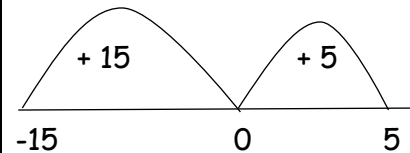
$$\begin{array}{r}
 \text{O . t h th} \\
 0.453 \\
 +\ 0.664 \\
 \hline
 1.117
 \end{array}$$

**Adding negative numbers**

In real life contexts

**Adding negative numbers**

$$-15 + 20 = 5$$



(could go up in 1s first)

**Adding negative numbers**

Develops into a mental method - no written method.

**Mental****Counting on:**

$$6.46 + 2.03$$

(partition 2.03 then +2 and +0.03)

**Adjusting:**

$$34\,256 + 14\,999 \text{ (add 15\,000 and subtract 1)}$$

$$6.73 + 0.99 \text{ (add 1 and subtract 0.01)}$$

**Using known facts and place value:**

$$0.64 + 0.36$$

$$64 + 36 = 100 \text{ so } 0.64 + 0.36 = 1$$

**Partitioning:****Adding a power/multiple of 10**

$$163\,453 + 20,000$$

$$275\,321 + 1,000$$

(children recognise which column will change)

**No exchanging**

$$345\,252 + 223\,516$$

$$3.421 + 2.357$$

**Exchanging**

$$3.4 + 2.77$$

$$3 + 2 = 5$$

$$0.4 + 0.7 = 1.1$$

$$5 + 1.1 + 0.07 = 6.17$$