



Progression in written calculation strategies for addition

# Year 1

## Statutory Guidance

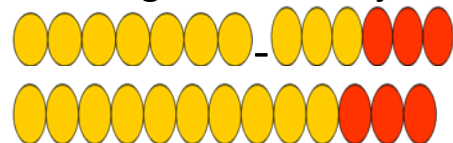
Add one-digit and two-digit numbers to 20, including zero.

Solve one-step problems that involve addition, using concrete objects and pictorial representations, and missing number problems.

### Possible representations

e.g.  $7 + 6 =$

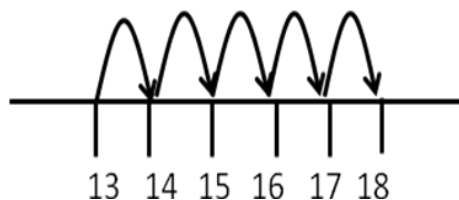
Using concrete objects



Using pictorial representations

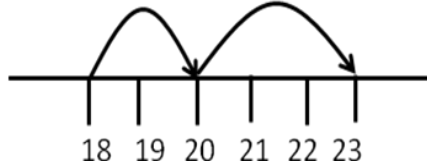
e.g.  $13 + 5$

+1 +1 +1 +1 +1



Addition using more efficient jumps

+2 +3



# Year 2

## Statutory Guidance

Solve problems with addition:

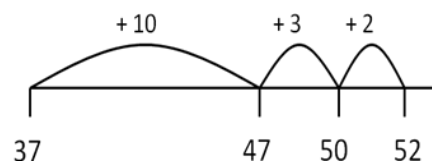
- using concrete objects and pictorial representations, including those involving numbers, quantities and measures
- applying their increasing knowledge of mental and written methods

Add numbers using concrete objects, pictorial representations, and mentally, including:

- a two-digit number and ones
- a two-digit number and tens
- two two-digit numbers
- adding three one-digit numbers

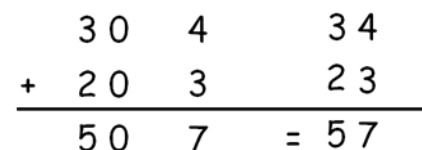
e.g.  $37 + 15 =$

2 digit number add a 2 digit number using efficient place value jumps



### Non-statutory guidance

$34 + 23 =$



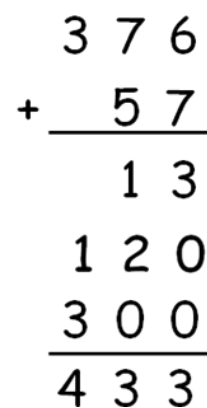
# Year 3

## Statutory Guidance

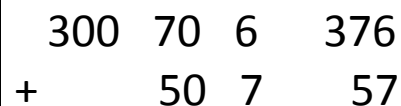
Add numbers with up to three digits, using formal written methods of columnar addition.

Solve problems, including missing number problems, using number facts, place value, and more complex addition.

e.g.  $376 + 57 =$   
(expanded addition)



Or



$400 + 30 + 3 = 433$

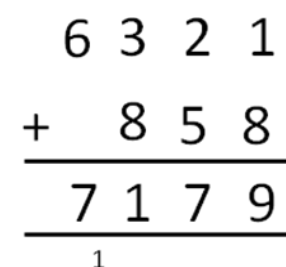
100 + 10

# Year 4

## Statutory Guidance

Add numbers with up to 4 digits using the formal written methods of columnar addition where appropriate

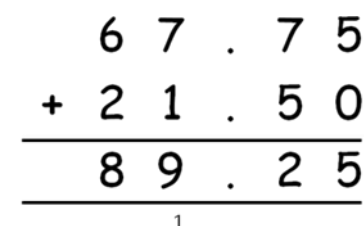
e.g.  $6321 + 858 =$



### Measurement

Based on statutory guidance linked to money and measures to 2 decimal places.

e.g.  $67.75 + 21.50 =$

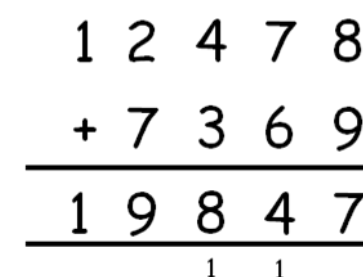


# Year 5

## Statutory Guidance

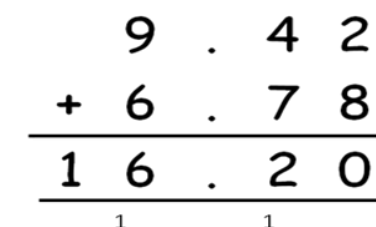
Add whole numbers with more than 4 digits, including using formal written methods (columnar addition)

e.g.  $12478 + 73649 =$



### Measurement

Based on statutory guidance linked to money and measures to 2 decimal places.



# Year 6

## Statutory Guidance

Solve addition multi-step problems in contexts, deciding which operations and methods to use and why

### Measurement

Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate