## Use number sense

Rounding numbers to estimate $2467+1729$ is approximately $2500+1700$

## Partition numbers

732-137 (by partitioning the second number and counting
back; -100, -32, -5)
Find the difference rather than subtract
607-288 (by counting up from 288, bridging the hundreds boundary; +12, +400, +7)

Calculate and adjust 1487-199 (by subtracting 200 and adding 1)

Check using inverse operations check $564-150=414$ with

$$
414+150=564
$$

## Representations to support subtraction

We can use equipment to find the difference between two numbers. This builds into the compact written method for subtraction.


## Representations to support addition

We can use equipment to find the total of two numbers to ensure understanding. This builds into the compact written method for addition.

$$
247+125
$$



Understand the inverse relationship between addition and subtraction.

| 348 |  |
| :---: | :---: |
| 256 | 92 |

Continue to understand the inverse relationship between addition and subtraction, including with missing numbers

| $256+92=348$ | $92+256=348$ |
| :--- | :--- |
| $348=256+92$ | $348=92+256$ |
| $348-256=92$ | $348-92=256$ |
| $92=348-256$ | $256=348-92$ |

Recognise that $\mathbf{2 5 6}+\mathbf{9 2}$ is equal to $\mathbf{9 2 + 2 5 6}$ Addition is commutative (order doesn't matter)

Recognise that subtraction is not commutative (order affects the calculation) $348-92$ is not equal to $92-348$

Understand that missing number problems can often be solved by working backwards by using the inverse operation
$456+\square=673 \square=300+176 \square+\square=125$
$1000-103=450+\square \quad 450<\square+60$

## Investigate

Always, sometimes, never true

A four-digit number plus a 4-digit number equals a four digit number

The sum of 3 odd numbers is even.

