#### Use known facts

What's the same and what's different?

#### Known facts and place value

282 + 7I know that 2 + 7 = 9So, 282 + 7 = 289

## Adjust

234 **+ 99** add 100 then subtract 1

367 **– 39** subtract 40 then add 1

#### **Estimate**

141 + 58 is approximately 140 + 60

## Representations to support addition

We can use equipment to find the total of 2 numbers. This supports the conceptual understanding before moving to formal methods.

$$28 + 19$$

Т	0

3 tens	17	ones

Т	0

Exchange 10 ones for 1 ten



# Fluency

numbers

Add three numbers to total 247

Year 3 Addition and Subtraction

0

# Money Problems

Shivam buys 2 pencils that cost 29p each. How much change will he get from £1?

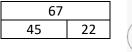
# Use the correct vocabulary

plus, add, total, increase, amount, sum, addition, minus, subtract, take away, less, difference, decrease, partition, round, calculate, inverse, operation, exchange

#### Problems with more than one solution

3 monkeys ate 22 bananas. Each of them ate a different number. How many bananas did they each eat? Find as many solutions as you can.

# Understand the *inverse* relationship between addition and subtraction.





$$\Box$$
 = 67 - 45 45 = 67 - 22

$$67 - 22 = 45$$
  $67 - \square = 22$ 

Carl says 'If I add two numbers together I can check my answer by taking them away afterwards. So to check 123 + 14, I can do 14 -123. 'Is he right? Explain your answer.

# Know pairs of numbers that total 100 and derived subtraction facts

$$100 = 74 + \square$$
  $43 + \square = 100$   
 $100 - \square = 26$   $100 - \square = 57$ 

# **Investigate - True or False?**

2 odd numbers add up to make an even number.

3 odd numbers add up to make an even number.

### **Investigate**

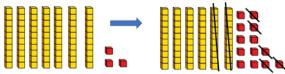
How many different rectangles can you draw with a perimeter of 20cm?

# **Representations to support subtraction**

We can use equipment to find the difference between 2 numbers.

This supports the conceptual understanding before moving to formal methods.

73 - 25



7 tens and 3 ones

6 tens and 13 ones

