| Use known facts <br> What's the same and what's <br> different? <br> $6+4=$ <br> $60+40=$ <br> $66+4=$ <br> $666+4=$ <br> $600+400=$$564-213=$ <br> $563-212=$ <br> $562-211=$ <br> $554-203=$ |
| :--- |

Known facts and place value $282+7$
I know that $2+7=9$
So $282+7=289$
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 and subtraction

These structures show the relationship between addition and subtraction.




Understand the inverse relationship between addition and subtraction.

| 67 |  |
| :---: | :---: |
| 45 | 22 |

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

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 20 cm ?

