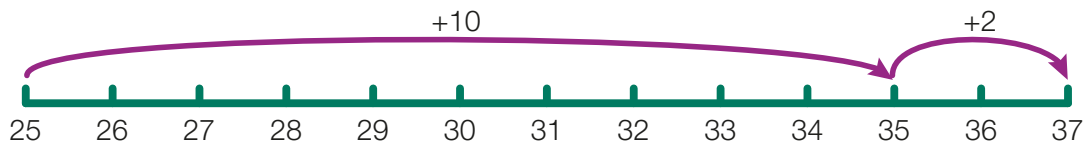# Mental methods for adding and subtracting

↻ Recap

You will probably know several ways of doing mental calculations.

You must know your number bonds: $7 + 8 = 15$ $15 - 8 = 7$ $15 - 7 = 8$

Partitioning numbers is important too: **2**5 + **1**2 = **3**7

+10   +2

25   26   27   28   29   30   31   32   33   34   35   36   37

📄 Revise

Remember, adding 99 is easy: add 100 and take away 1!

Mental methods can work just as well for larger numbers, but you need to be confident and know your limits!

45,356 + 12,103 ✓ **There is no carrying necessary; just add each column.**

123,729 + 943,509 ✗ **Too much carrying!**

34,302 − 8753 ✗ **Too much carrying!**

16,583 − 8000 ✓ **The 100s, 10s and 1s stay exactly the same!**

✔ Check

1. Add these numbers using mental methods.

    a. 46 + 50 = _____   **b.** 127 + 99 = _____

    c. 3274 + 2002 = _____   **d.** 2500 + 7454 = _____

    e. 120,000 + 10,320 = _____

2. Subtract these numbers using mental methods.

    a. 80 − 46 = _____   **b.** 160 − 65 = _____

    c. 345 − 99 = _____   **d.** 4000 − 2500 = _____

    e. 275,675 − 10,000 = _____

⚠ Problems

Brain-teaser Jason has read 123 pages of his book. If he reads another 150 pages he will finish it. How many pages does the book have altogether?

_____

Brain-buster Armchairs cost £299 and sofas cost £499. How much would two armchairs and one sofa cost altogether?

_____