

This *Workbook* helps you to check what you already know, practise what you've learned and challenge yourself to fly higher!

You can work through all of the activities in order or you can dip in and out to brush up your skills or explore in more depth. Use the progress chart opposite to record which skills you've checked and practised. Aim higher by having a go at the questions in the *Skills Test Papers*.

You can check the answers at the back of the book.

What you should be able to do after you complete the skills check and practice questions. You can tick off each one as you can do it.

The title of the topic.

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CAN YOU?

- Use addition and subtraction facts for numbers to 20.
- Add and subtract numbers mentally.

Knowing the number bonds for all numbers to 10 will help you add and subtract mentally.

Adding and subtracting mentally

ADDING AND SUBTRACTING MENTALLY

PRACTICE

SKILLS CHECK

There are several methods we can use to help us add and subtract quickly.

We can add by **doubling**.

$20 + 22 = 20 + 20 + 2 = 42$
 $44 + 45 = 44 + 44 + 1 = 89$

We can subtract by **halving**.

$60 - 30 = 30$ $24 - 12 = 12$

To add or subtract **9**, add or subtract 10, then **adjust** by either subtracting or adding 1.

$15 + 9 = 15 + 10 - 1 = 24$
 $27 - 9 = 27 - 10 + 1 = 18$

To add or subtract **11**, add or subtract 10, then **adjust** by either subtracting or adding 1.

$29 + 11 = 29 + 10 + 1 = 40$
 $36 - 11 = 36 - 10 - 1 = 25$

1. Use **doubling** to answer these.

Show exactly what you do.

a. $13 + 14$ _____

b. $22 + 23$ _____

c. $34 + 35$ _____

2. Answer these by **adding** or **subtracting** ten and then **adjusting**.

Show exactly what you do.

a. $18 + 9$ _____

b. $37 + 9$ _____

c. $47 - 9$ _____

3. Answer these by **adding** or **subtracting** ten and then **adjusting**.

Show exactly what you do.

a. $18 + 11$ _____

b. $37 + 11$ _____

c. $47 - 11$ _____

4. Choose a mental strategy to answer these.

a. $32 + 8$ _____

b. $56 - 9$ _____

Sticky notes provide tips and reminders.

Complete the practice questions to check your understanding. The questions become more difficult as you go down the page.

Background information on the topic to help you answer the questions.