Bonds to 10 and 100: answers and notes

What your child practised: number bonds to 10, and using them to find pairs of tens that make 100 (Year 2 to Year 3).

Page 1 · Warm up

8 + **2**; 3 + **7**; **5** + 5; 1 + **9**

Page 2 · Try it together

Answers will vary. Check: **I can see + Hiding = 10**, and the bond to 100 uses the same digits with a 0, such as 4 + 6 = 10, so 40 + 60 = 100.

Page 2 · A. Fill the ten frames

6 + **4** = 10; 9 + **1** = 10
2 + 8 = 10; **4 + 6** = 10
(8 + 2 and 6 + 4 are right too.)

Page 3 · B. Pairs that make 100

30 and 70; **90 and 10**; **50 and 50**; **20 and 80**; **60 and 40**

Page 3 · C. Fill the gaps

40 + **60**; **30** + 70; 100 = 80 + **20**; 100 − 30 = **70**; 100 − 50 = **50**

Page 3 · D. Like Sam

Any two other bonds, such as 3 + 7 = 10, so **30 + 70 = 100**, or 5 + 5 = 10, so **50 + 50 = 100**.

Challenge: No. The ones make 4 + 6 = 10, which is **1 more ten**. With 6 tens and 4 tens, that's 11 tens: 64 + 46 = **110**. To make 100, the tens should make 9, not 10: **64 + 36 = 100**. 10p coins help to show it.

Watch out for

- **Mixing ones and tens**, such as 60 + 4 = 100. Say it in tens: "6 tens and 4 tens make 10 tens", so the answer is 40.
- **Counting from 1 each time** to find a bond. It works, but it's slow. Play quick bond games (below) until the bonds to 10 are known by heart.
- **Take-away from 100** (100 − 30). Show it is the same bond: 30 + 70 = 100, so 100 − 30 = 70.

Going further (5 minutes, no paper)

- **Bond ping-pong:** you say a number up to 10, your child says its partner to make 10. Then try tens to 100.
- **Finger flash:** hold up some fingers. How many are down? That's the other part of 10.
- **In the game:** Chapter 2, Hop and add, uses these bonds to hop along a number line, adding tens and ones.