Lining up columns: answers and notes

What your child practised: lining up numbers with up to 4 digits by place value and adding them in columns, ones first (Year 4). No exchanging yet.

Page 1 · Warm up

4,382: **4** thousands, **3** hundreds, **8** tens, **2** ones.

Page 2 · Try it together

Answers vary. Check each total by adding again, column by column. With digits 1–4, no column reaches 10.

Page 2 · A. Lined up correctly

2,415 + 63: the **right-hand** one.
5,102 + 384: the **left-hand** one.
1,256 + 7: the **left-hand** one.

Page 3 · B. Add

2,341 + 1,456 = **3,797**
5,203 + 2,674 = **7,877**
3,062 + 415 = **3,477**
6,120 + 53 = **6,173**

Page 3 · C. Write and add

4,503 + 1,274 = **5,777**
7,215 + 362 = **7,577**

Page 3 · D. Airship Kestrel

3,412 + 1,305 = **4,717 kg**

Challenge: No. Leo lined 52 up from the left, under the 3 and the 2, so he really added 5,200. Lined up from the ones, 3,264 + 52 = **3,316**. Ask: "What is the 5 in 52 worth?" (5 tens, or 50.)

Watch out for

- **Lining up from the left** (putting 52 under the thousands and hundreds). Say each number aloud with its place values and always start by putting the ones under the ones.
- **Starting on the left.** It works here, but not once there are exchanges. Build the habit now: ones first.
- **Empty columns**, as in 6,120 + 53: the top digit simply comes down into the answer.

Going further (5 minutes, no paper)

- **Say it, place it:** say a 4-digit number; your child says which digit is in the hundreds, the tens and so on.
- **House numbers:** add two door numbers you pass, in your heads, and say which column each digit goes in.
- **In the game:** Chapter 2, Column addition with exchanging, shows what to do when a column makes 10 or more.