Building numbers: answers and notes

What your child practised: the value of each digit in a 3-digit number, partitioning, zero as a placeholder, and reading, writing, comparing and ordering numbers to 1,000 (Year 3).

Page 1 · Warm up

562: **60** · 615: **600** · 386: **6**

Page 2 · Try it together

Answers will vary. With 2, 4, 3: 234, 243, 324, 342, 423, 432.

Page 2 · A. Blocks

2 H, 3 T, 5 O = **235**
3 H, 0 T, 6 O = **306**
1 H, 5 T, 0 O = **150**

Page 3 · B. What is it worth?

248: **40** · 715: **700** · 389: **9**
507: **0** (no tens) · 460: **60**

Page 3 · C. Partition

572 = **500** + **70** + **2** · 309 = 300 + **9**
800 + 60 + 4 = 864 · 243 = 200 + 30 + **13**

Page 3 · D. Numbers and words

472 · **605**
318: **three hundred and eighteen**
940: **nine hundred and forty**

Page 3 · E. Compare and order

452 **>** 425 · 309 **<** 390
700 **>** 699 · 42 tens **=** 420

Order: **153, 315, 513, 531**

Challenge: No. In 305 the 3 is worth 300; in 35 it is worth 30. The zero holds the tens place, so 305 is much bigger.

Watch out for

- **The wrong place**, such as saying the 4 in 248 is worth 4 or 400. Ask "Which place is it in?"
- **Leaving out the zero**: "six hundred and five" written as 65. Say it in places: 6 hundreds, 0 tens, 5 ones.
- **243 = 200 + 30 + 13** is right too: one ten was swapped for 10 ones.
- **Comparing**: look at the hundreds first. Only if they're the same, compare the tens.

Going further (5 minutes, no paper)

- **Number spotting:** read 3-digit numbers you see (page numbers, bus numbers) and say what each digit is worth.
- **Guess my number:** "It has 4 hundreds, no tens and 7 ones." (407)
- **In the game:** Chapter 4, Hop by 10s, finds 10 or 100 more or less on a number line.